

PUB. 113

LIST OF LIGHTS

RADIO AIDS AND FOG SIGNALS

2003

IMPORTANT

THIS PUBLICATION
SHOULD BE CORRECTED
EACH WEEK FROM THE
NOTICE TO MARINERS

THE WEST COASTS OF EUROPE AND
AFRICA, THE MEDITERRANEAN SEA,
BLACK SEA AND
AZOVSKOYE MORE (SEA OF AZOV)



Prepared and published by the
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Bethesda, MD

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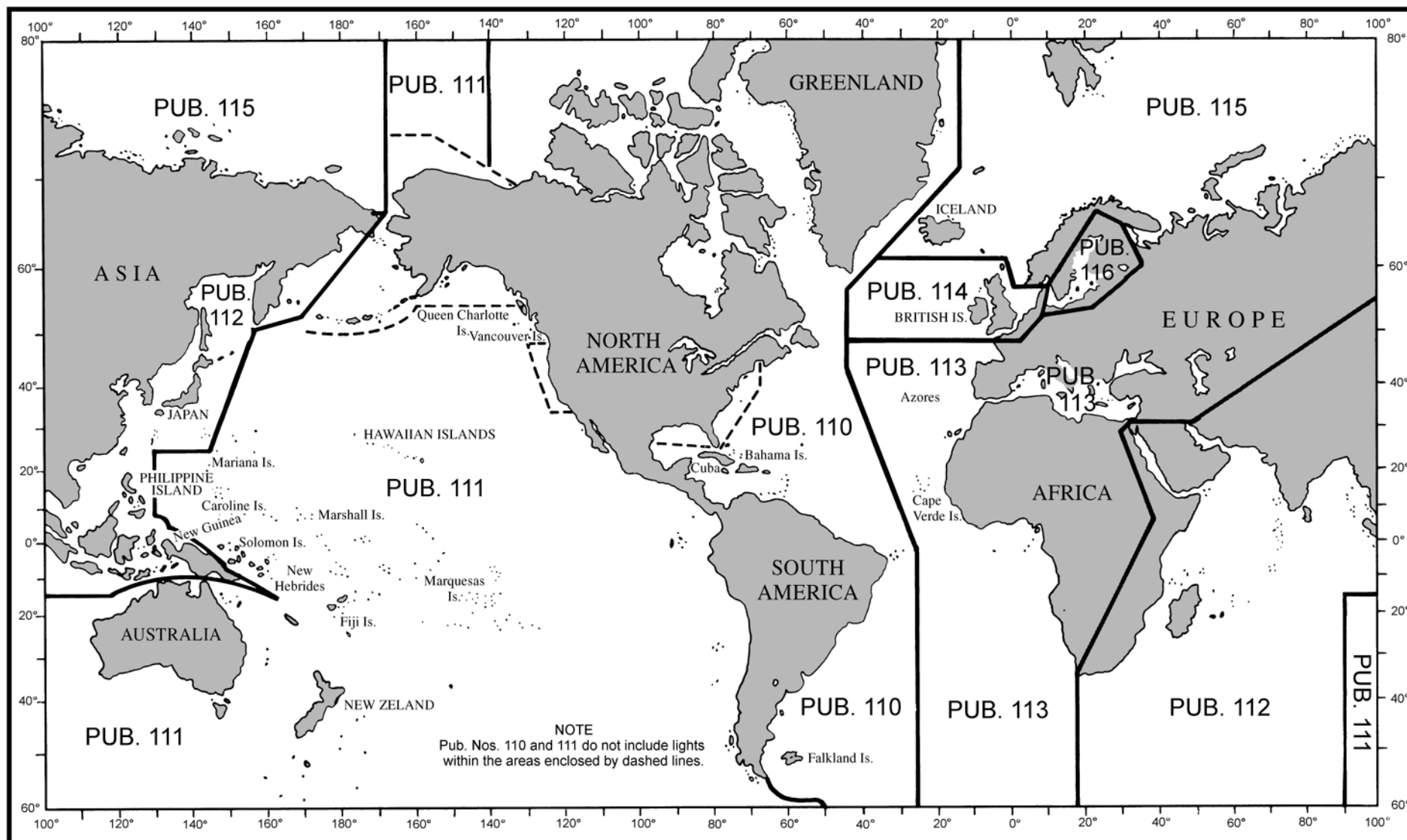
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LIST OF LIGHTS LIMITS

NATIONAL IMAGERY AND MAPPING AGENCY



113

LIGHTS

WEST COAST OF EUROPE

2003

WARNING ON USE OF FLOATING AIDS TO NAVIGATION TO FIX A NAVIGATIONAL POSITION

The aids to navigation depicted on charts comprise a system consisting of fixed and floating aids with varying degrees of reliability. Therefore, prudent mariners will not rely solely on any single aid to navigation, particularly a floating aid.

The buoy symbol is used to indicate the approximate position of the buoy body and the sinker which secures the buoy to the seabed. The approximate position is used because of practical limitations in positioning and maintaining buoys and their sinkers in precise geographical locations. These limitations include, but are not limited to, inherent imprecisions in position fixing methods, prevailing atmospheric and sea conditions, the slope of and the material making up the seabed, the fact that buoys are moored to sinkers by varying lengths of chain, and the fact that buoy and/or sinker positions are not under continuous surveillance but are normally checked only during periodic maintenance visits which often occur more than a year apart. The position of the buoy body can be expected to shift inside and outside the charting symbol due to the forces of nature. The mariner is also cautioned that buoys are liable to be carried away, shifted, capsized, sunk, etc. Lighted buoys may be extinguished or sound signals may not function as the result of ice or other natural causes, collisions, or other accidents.

For the foregoing reasons, a prudent mariner must not rely completely upon the position or operation of floating aids to navigation, but will also utilize bearings from fixed objects and aids to navigation on shore. Further, a vessel attempting to pass close aboard always risks collision with a yawing buoy or with the obstruction the buoy marks.

PREFACE

The 2003 edition of Pub. 113, List of Lights, Radio Aids and Fog Signals for the West Coasts of Europe and Africa, the Mediterrean Sea, Black Sea and Azovskoye More (Sea of Azov), cancels the previous edition of Pub. 113.

This edition contains information available to the National Imagery and Mapping Agency (NIMA) up to 13 September 2003, including Notice to Mariners No. 37 of 2003.

A summary of corrections subsequent to the above date will be in Section II of the Notice to Mariners which announced the issuance of this publication.

In the interval between new editions, corrective information affecting this publication will be published in the Notice to Mariners and must be applied in order to keep this publication current.

Nothing in the manner of presentation of information in this publication or in the arrangement of material implies endorsement or acceptance by NIMA in matters affecting the status and boundaries of States and Territories.

RECORD OF CORRECTIONS PUBLISHED IN WEEKLY NOTICE TO MARINERS

NOTICE TO MARINERS

YEAR 2003				YEAR 2004			
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INTRODUCTION

The National Imagery and Mapping Agency publishes a List of Lights, Radio Aids and Fog Signals in seven volumes divided geographically as shown on the index chart-let on the inside front cover of this book. Major fixed and outermost floating aids to navigation, such as sea buoys, safety fairway buoys, traffic separation buoys, etc., are listed. Other floating aids are not generally listed. Storm signals, signal stations, radio direction finders, radiobeacons, RACONs and RAMARKs located at or near lights are found in this List. Radiobeacons are listed in a separate section in the back of this publication.







The date to which this publication has been corrected can be found in the Preface. In the interval between new editions, corrective information affecting this publication will be published in Section II of Notice to Mariners, and must be applied to keep this publication current. All of these corrections should be applied in the appropriate places and their insertion noted in the "Record of Corrections."

Mariners and other users are requested to forward new or corrective information useful in the correction of this publication to:

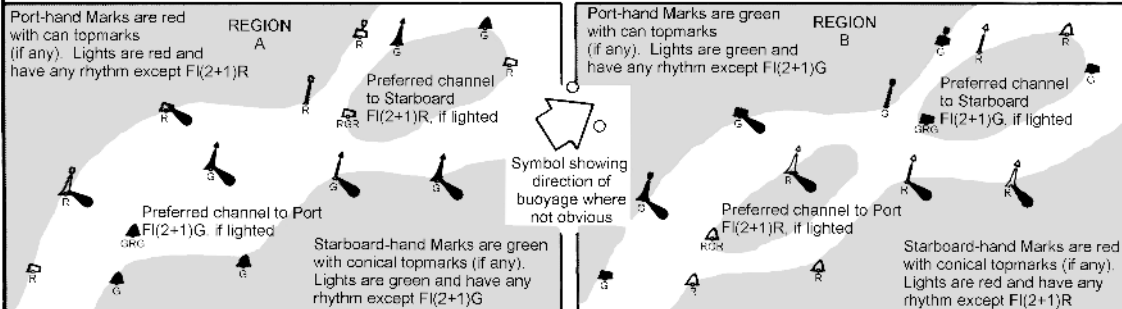
MARITIME SAFETY INFORMATION DIVISION
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NATIONAL IMAGERY AND MAPPING AGENCY
4600 SANGAMORE ROAD
BETHESDA MD 20816-5003

Buoys and Beacons IALA* Buoyage System

Where in force, the IALA System applies to all fixed and floating marks and occasionally lighthouses, sector lights, range marks, lightships and LANBY's (large automatic navigational buoys).

The standard buoy shapes are cylindrical (can) , conical , spherical , pillar (including high focal plane)  and spar , but variations may occur, for example lightfloats . In the illustrations below, only the standard buoy shapes are used. In the case of fixed beacons (lighted or unlighted), only the shape of the topmark is of navigational significance.

Lateral Marks (used in conjunction with a conventional direction of buoyage) are generally for well-defined channels. There are two international Buoyage Regions-A and B-where Lateral marks differ.

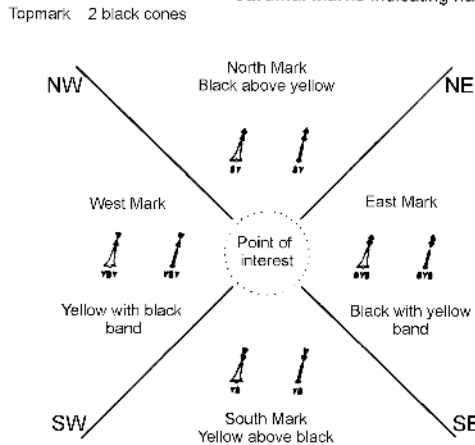


A preferred channel buoy may also be a pillar or a spar. All preferred channel marks have three horizontal bands of color.

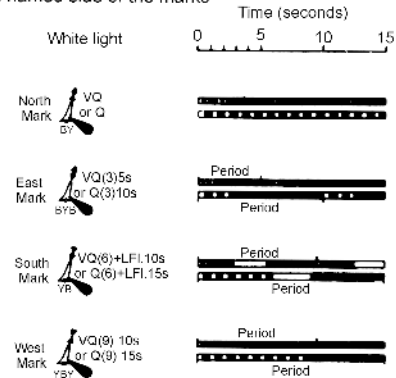
All marks other than Lateral Marks are the same in REGIONS A and B

UNLIGHTED MARKS

Cardinal Marks indicating navigable water to the named side of the marks



LIGHTED MARKS

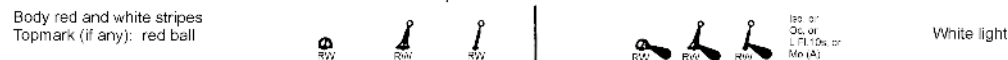


* The same abbreviations are used for lights on spar buoys and beacons. The periods, 5s, 10s and 15s, may not always be charted.

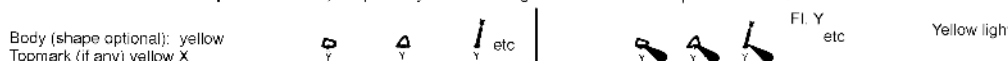
Isolated Danger Marks, stationed over dangers with navigable water around them.


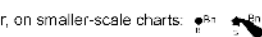


Safe Water Marks, such as mid-channel and landfall marks.



Special Marks, not primarily to assist navigation but to indicate special features.



BEACONS with IALA System topmarks are charted by upright symbols, eg.  (minor beacon) or, on smaller-scale charts: 

Beacon towers are charted:  (occasionally lighted)

RADAR REFLECTORS on buoys and beacons are not generally charted.

COLOR ABBREVIATIONS under symbols, especially those of spar buoys, may be omitted, or may be at variance with symbols shown above.

LIGHTFLOATS: The IALA System is not usually applied to large lightfloats (replacing manned lightships) but may be applied to smaller lightfloats.

* IALA is an abbreviation of International Association of Lighthouse Authorities

THE NATIONAL IMAGERY AND MAPPING AGENCY MARITIME SAFETY INFORMATION DIVISION WEBSITE

The National Imagery and Mapping Agency (NIMA) Marine Navigation Website provides worldwide remote query access to extensive menus of maritime safety information 24 hours a day.

Databases made available for access, query and download include Chart Corrections, Publication Corrections, NIMA Hydrographic Catalog Corrections, Chart and Publication Reference Data (current edition number, dates, title, scale), NIMA List of Lights, USCG Light Lists, WorldWide Navigational Warning Service (WWNWS) Broadcast Warnings, Maritime Administration (MARAD) Advisories, Department of State Special Warnings, Mobile Offshore Drilling Units (MODUs), Anti-Shipping Activity Messages (ASAMs), World Port Index, and Radio Navigational Aids. Publications that are also made available as PDF files include the U.S. Notice to Mariners, U.S. Chart No. 1, The American Practical Navigator (Bowditch), International Code of Signals, Radio Navigational Aids, World Port Index, Distances Between Ports, Sight Reduction Tables for Marine and Air Navigation, and the Radar Navigation and Maneuvering Board Manual.

The Maritime Safety Information Division Website can be accessed directly at <http://pollux.nss.nima.mil>. Any questions concerning the Maritime Safety Information Division Website should be directed to:

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Fax: (1) 301-227-4211
E-mail: webmaster_nss@nima.mil

DESCRIPTION

(Lights, Buoys, RACONs, RAMARKs)

Information is tabulated in eight columns as follows:

Column 1: The number assigned to each light, RACON or RAMARK by this Agency. International numbers are listed below this number in italic type and in a cross reference in the back of the book. RACONs and RAMARKs located at a light are listed with the light. Those not located at a light are assigned separate numbers.

Column 2: Name and descriptive location of the light or buoy, RACON or RAMARK. A dash (-) or dashes (--) in this column is used to reduce repetition of principal geographic names. This column is intended to describe the location of the navigational aid and to distinguish it from others in proximity. Differences in type indicate the following:

Bold-faced: Lights intended for landfall or having a visibility (range) of 15 miles or more.

Italics: Floating aids.

ITALICS CAPITALS: Lightships and LANBYs.

Roman: All other lights not mentioned above.

Column 3: Approximate latitude and longitude of a navigational aid to the nearest tenth of a minute, intended to facilitate chart orientation (use column 2 and the appropriate chart for precise positioning).

Column 4: Light, buoy, RACON or RAMARK characteristic (see Characteristics of Lights chart for explanation of lights).

Column 5: Height of light in feet (Roman type) equivalent measurement (below) given in meters (Bold-faced type).

Column 6: Range. The distance, expressed in nautical miles, that a light can be seen in clear weather or that a RACON or RAMARK can be received.

Column 7: Description of the structure and its height in feet.

Note—Stripes are vertical. Bands are horizontal. The use of the term “diagonal stripes” is the exception.

Column 8: Remarks—sectors, fog signals, radar reflectors, minor lights close by, radiobeacons, storm signals, signal stations, radio direction finders, and other pertinent information.

Geographic names or their spellings do not necessarily reflect recognition of the political status of an area by the

United States Government.

The names of lights may differ from geographic names on charts.

ABBREVIATIONS





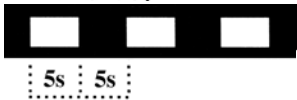


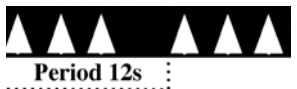


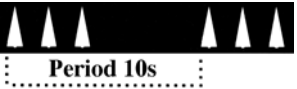


Where the lights of different countries intermingle in the list they are distinguished by the following letters:






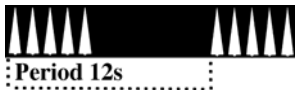




(A.)	Albania	(L.)	Liberia
(Bu.)	Bulgaria	(P.)	Portugal
(E.)	Egypt	(Ro.)	Romania
(F.)	France	(S.)	Spain
(Gr.)	Greece	(T.)	Turkey
(I.)	Italy	(U.K.)	United Kingdom

Other abbreviations:

Al.—alternating	lt.—lit
bl.—blast	Mo.—Morse code
Bu.—blue	min.—minute
Dir.—directional	obsc.—obscured
ec.—eclipsed	Oc.—occulting
ev.—every	Or.—orange
F.—fixed	Q.—quick flashing
Fl.—flashing	R.—red
fl.—flash	s.—seconds
G.—green	si.—silent
horiz.—horizontal	U.Q.—ultra quick flashing
intens.—intensified	unintens.—unintensified
I.Q.—interrupted quick flashing	vert.—vertical
Iso.—isophase	Vi.—violet
I.V.Q.—interrupted very quick flashing	vis.—visible
Km.—kilometer (0.62137 mile)	V.Q.—very quick flashing
L.Fl.—long flashing	W.—white
	Y.—yellow

CHARACTERISTICS OF LIGHTS

TYPE	ABBR.	GENERAL DESCRIPTION	ILLUSTRATION
Fixed	F.	A continuous and steady light.	
Occulting	Oc.	The total duration of light in a period is longer than the total duration of darkness and the intervals of darkness (eclipses) are usually of equal duration. Eclipse regularly repeated.	
Group occulting	Oc.(2)	An occulting light for which a group of eclipses, specified in number, is regularly repeated.	
Composite group occulting	Oc.(2+1)	A light similar to a group occulting light except that successive groups in a period have different numbers of eclipses.	
Isophase	Iso.	A light for which all durations of light and darkness are clearly equal.	
Flashing	Fl.	A light for which the total duration of light in a period is shorter than the total duration of darkness and the appearances of light (flashes) are usually of equal duration (at a rate of less than 50 flashes per minute).	
Long flashing	L.Fl.	A single flashing light for which an appearance of light of not less than 2 sec. duration (long flash) is regularly repeated.	
Group flashing	Fl.(3)	A flashing light for which a group of flashes, specified in number, is regularly repeated.	
Composite group flashing	Fl.(2+1)	A light similar to a group flashing light except that successive groups in a period have different numbers of flashes.	
Quick flashing	Q.	A light for which a flash is regularly repeated at a rate of not less than 50 flashes per minute but less than 80 flashes per minute.	
Group quick flashing	Q.(3)	A light for which a specified group of flashes is regularly repeated; flashes are repeated at a rate of not less than 50 flashes per minute but less than 80 flashes per minute.	
	Q.(9)		
	Q.(6)+L.Fl.		

TYPE	ABBR.	GENERAL DESCRIPTION	ILLUSTRATION
Interrupted quick flashing	I.Q.	A light for which the sequence of quick flashes is interrupted by regularly repeated eclipses of constant and long duration.	
Very quick flashing	V.Q.	A light for which a flash is regularly repeated at a rate of not less than 80 flashes per minute but less than 160 flashes per minute.	
Group very quick flashing	V.Q.(3)	A light for which a specified group of very quick flashes is regularly repeated.	
	V.Q.(9)		
	V.Q.(6)+L.Fl.		
Interrupted very quick flashing	I.V.Q.	A light for which the sequence of very quick flashes is interrupted by regularly repeated eclipses of constant and long duration.	
Ultra quick flashing	U.Q.	A light for which a flash is regularly repeated at a rate of not less than 160 flashes per minute.	
Interrupted ultra quick flashing	I.U.Q.	A light for which the sequence of ultra quick flashes is interrupted by regularly repeated eclipses of constant and long duration.	
Morse code	Mo.(U)	A light for which appearances of light of two clearly different durations are grouped to represent a character or characters in Morse Code.	
Fixed and flashing	F.Fl.	A light for which a fixed light is combined with a flashing light of greater luminous intensity.	
Alternating light	Al.	A light showing different colors alternately.	

NOTE - Alternating lights may be used in combined form with most of the previous types of lights.

NOMENCLATURE OF LIGHTS

Lights exhibit a distinctive appearance by which they are recognized, e.g. Fixed, Flashing, Group Flashing, etc. The properties of their appearance, by which they are distinguished, are referred to as the *characteristics* of the light. The principal characteristics are generally the sequence of intervals of light and darkness, and, in some cases, the sequence of colors of light exhibited.

Fixed lights—those which exhibit a continuous steady light.

Rhythmic lights—those which exhibit a sequence of intervals of light and eclipse (repeated at regular intervals) in a manner described in Chart No. 1 and this volume.

Alternating lights—rhythmic lights which exhibit different colors during each sequence.

Period of a light—the time occupied by an entire cycle of intervals of light(s) and eclipse(s).

Range: Meteorological visibility—the greatest distance at which a black object of suitable dimensions can be seen and recognized against the horizon sky or, in the case of night observations, could be seen and recognized if the general illumination were raised to the normal daylight level.

Luminous range of a light—the greatest distance at which a light can be seen merely as a function of its luminous intensity, the meteorological visibility, and the sensitivity of the observer's eyes.

Nominal range of the light—the luminous range of a light in a homogeneous atmosphere in which the meteorological visibility is 10 nautical miles.

Geographical range of a light—the greatest distance at which a light can be seen as a function of the curvature of the earth, the height of the light source and the height of the observer.

The visibility of a light is usually the distance that it can be seen in clear weather and is expressed in nautical miles. Visibilities listed are values received from foreign sources.

Range lights—two or more lights at different elevations, so situated to form a range (leading line) when brought into transit. The light nearest the observer is the *front light* and the one farthest from the observer is the *rear light*. The front light is normally at a lower elevation than the rear light.

Directional lights—lights illuminating a sector of very narrow angle and intended to mark a direction to be followed.

Vertical lights—Two or more lights disposed vertically or geometrically to form a triangle, square, or other figure. If the individual lights serve different purposes, those of lesser importance are called *Auxiliary lights*.

Occasional lights—lights exhibited only when specially

needed:

(a) *Tidal light*—shown at the entrance of a harbor, to indicate tide and tidal current conditions within the harbor.

(b) *Fishing light*—for the use of fishermen and shown when required.

(c) *Private light*—maintained by a private authority for its own purposes. The mariner should exercise special caution when using a private light for general navigation.

Seasonal lights—usually shown only during the navigation season or for a lesser time period within that season.

Articulated lights—offshore aids to navigation consisting of a length of pipe attached directly to a sinker by means of a pivot or such other device employing the principle of the universal joint. The positional integrity is intermediary between that of a buoy and a fixed aid.

Aeronautical lights—lights of high intensity which may be the first lights observed at night from vessels approaching the coast. Those lights situated near the coast are listed in the List of Lights in order that the navigator may be able to obtain more information concerning their description.

These lights are not designed or maintained for marine navigation and they are subject to change without prompt notification.

These lights are indicated in this List by the designation AVIATION LIGHT and are placed in geographical sequence in the body of the text along with lights for surface navigation.

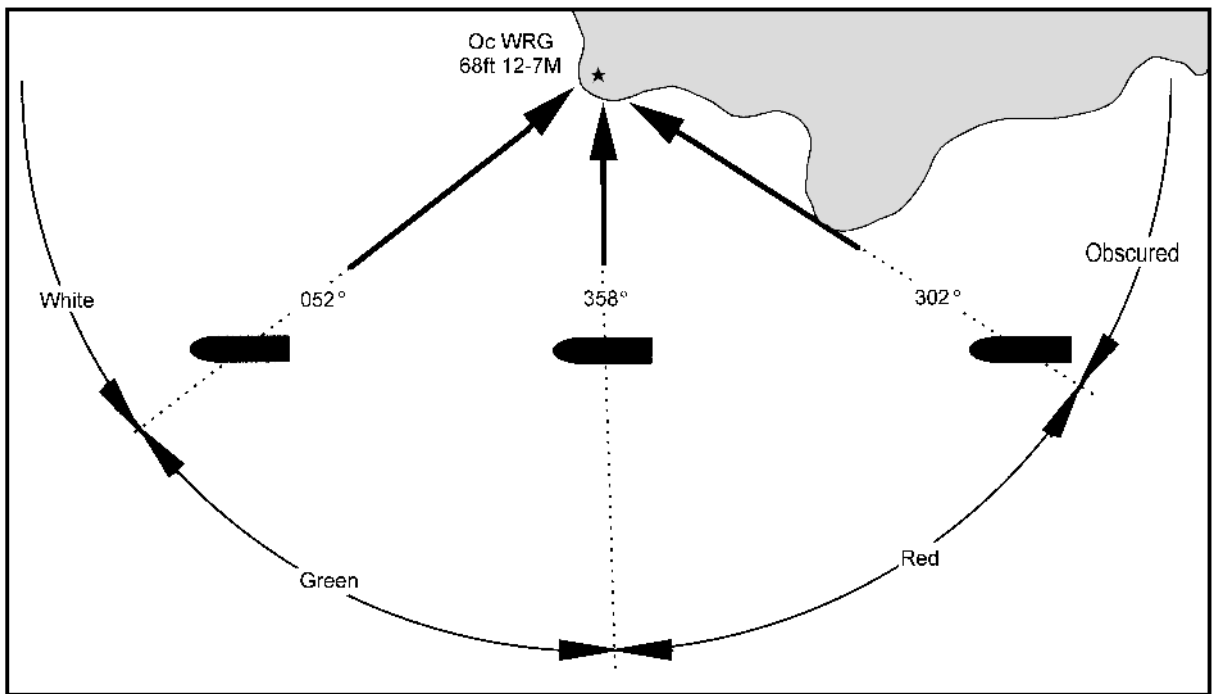
Aeromarine lights—marine-type lights for which part of the beam is deflected to an angle of 10 to 15 degrees above the horizon to facilitate use by aircraft.

Sector limits and arcs of visibility—these are arranged clockwise and are given from seaward toward the light. Thus, in the diagram, the sectors of the light are defined as: obscured from shore to 302°, red to 358°, green to 052°, white to shore. These are bearings of the light as seen from a vessel crossing the sector lines.

Under some conditions of the atmosphere, white lights may have a reddish hue. The mariner should not judge solely by color where there are sectors but should verify this position by taking a bearing of the light. On either side of the line of demarcation between white and red there is always a small sector of uncertain color, as the edges of a sector of visibility cannot be clearly defined.

When a light is obscured by adjoining land and the arc of visibility is given, the bearing on which the light disappears may vary with the distance from which it is observed. When the light is cut off by a sloping point of land or hill, the light may be seen over a wider arc by a ship farther off than by one closer.

Bearings—all bearings are true, measured clockwise from 000°, and given in degrees or degrees and minutes.



LIGHTSHIPS, SUPERBUOYS, AND OFFSHORE LIGHT STATIONS

Courses should be set to pass all floating aids to navigation with sufficient clearance to avoid the possibility of collision from any cause. Experience shows that floating aids to navigation cannot be safely used as leading marks to be passed close aboard, but should always be left broad off the course, whenever searoom permits.

When approaching a lightship, superbuoy, or a station on a submarine site on radio bearings, the risk of collision will be avoided by insuring that the radio bearing does not remain constant.

Most lightships and large buoys are anchored with a very long scope of chain and, as a result, the radius of their swinging circle is considerable. The charted position is the location of the anchor. Furthermore, under certain conditions of wind and current, they are subject to sudden and unexpected sheers which are certain to hazard a vessel attempting to pass close aboard.

During extremely heavy weather and due to their exposed locations, lightships may be carried off station. The mariner should, therefore, not implicitly rely on a lightship maintaining its precisely charted position during and immediately following severe storms. A lightship known to be off station will secure her light, fog signal, and radiobeacon and fly the International Code signal "LO" signifying "I am not in my correct position."

Russian lightships are on station during periods of navigation and leave their stations only when forced to because of ice and are then replaced as soon as possible. Lightships by day show a ball over a yellow flag with a blue St. George's cross. If a vessel is seen standing into danger the signal "NF" of the International Code of Signals is hoisted, and if not immediately seen, rockets with two explosions and bright stars may be fired every minute: by night the rockets only are used.

When not on their proper stations, the light vessels discontinue their characteristic lights and fog signals and, if possible, will lower their daymarks. They will show instead two black balls, one forward and one aft, or two red lights, one forward and one aft. In addition they will hoist the International Code signal "LO" or will show a

red and a white flare-up light or flash simultaneously at least every 15 minutes.

Red flags in place of the black balls and red and a white light shown simultaneously may be used in place of the flare-up light or flash.

A lightship under way shows the same lights and makes the same sound signals as other vessels under way and, if preceding under its own power, hoists two black balls, one forward and one aft.

Relief lightships are painted red, with two masts. By day they display a red ball at each mast, and by night exhibit a fixed red light from the same positions. Fog signals are sounded and the warning signals described above are employed.

Fog bells at *Russian* lighthouses and lightships are sounded, unless stated otherwise, in the following uniform manner:

(a) at lighthouses: in groups of double strokes, the interval between the groups being not more than 3 minutes.

(b) at lightships: in groups of triple strokes, the interval between the groups being not more than 2 minutes.

When the fog signal of an approaching vessel is heard, the intervals between the double and triple strokes in the groups are reduced and the bell is sounded continuously in double or triple strokes until the vessel is past the light or clear of danger.

Due to a lack of information it is not possible to ensure that the details of navigational aids are correct.

In *France*, *Lebanon* and *Tunisia* lights may be shown by day in poor visibility.

In *Spain* and *Morocco* lights are shown from 15 minutes after sunset until 15 minutes before sunrise.

Oil rigs in *Angolan* waters marked by Mo(U) W 18s Siren 20s are moored inside the 600 fathom contour. Such lights are not included in this list.

It has been reported that the lights of *Guinea* and *Liberia* are unreliable.

FOG SIGNALS

The function of a fog signal in the system of aids to navigation is to warn of danger and to provide the mariner with an audible means of approximating his position relative to the fog signal when the station, or any visual signal which it displays, is obscured from view by atmospheric conditions.

Fog signals depend upon the transmission of sound through air. As aids to navigation, they have certain inherent defects that should be considered. Sound travels through the air in a variable and frequently unpredictable manner.

It has been established that:

fog signals are heard at greatly varying distances and that the distance at which a fog signal can be heard may vary with the bearing of the signal and may be different on different occasions;

under certain conditions of atmosphere, when a fog signal has a combination of high and low tones, it is not unusual for one of the tones to be inaudible. In the case of sirens, which produce a varying tone, portions of the blast may not be heard;

there are occasionally areas close to the signal in which it is wholly inaudible. This is particularly true when the fog signal is screened by intervening land or other obstructions;

fog may exist a short distance from a station and not be observable from it, so that the signal may not be in operation;

even though a fog signal may not be heard from the deck or bridge of a ship when the engines are in motion, it may be heard when the ship is stopped, or from a quiet position. Sometimes it may be heard from aloft though not on deck;

the intensity of the sound emitted by a fog signal may be greater at a distance than in immediate proximity.

All these considerations point to the necessity for the utmost caution when navigating near land in fog. Particular attention should be given to placing lookouts in positions in which the noises in the ship are least likely to interfere with hearing a fog signal. Fog signals are valuable as warnings, but the mariner should not place implicit reliance upon them in navigating his vessel. They should be considered solely as warning devices.

Among the devices in common use as fog signals are:

Radiobeacons which broadcast simple dot-and-dash combinations by means of a transmitter emitting modulated continuous waves;

Diaphones which produce sound by means of a slotted reciprocating piston actuated by compressed air. Blasts

may consist of two tones of different pitch, in which case the first part of the blast is high and the last of a low pitch. These alternate pitch signals are called "two-tone;"

Diaphragm horns which produce sound by means of a diaphragm vibrated by compressed air, steam, or electricity. Duplex or triplex horn units of differing pitch produce a chime signal;

Nautophones, electrically operated instruments, each comprising a vibrating diaphragm, fitted with a horn, which emits a high note similar in power and tone to that of the reed;

Reed horns which produce sound by means of a steel reed vibrator by compressed air;

Sirens which produce sound by means of either a disk or a cup-shaped rotor actuated by compressed air or electricity;

Whistles which produce sound by compressed air emitted through a circumferential slot into a cylindrical bell chamber;

Bells which are sounded by means of a hammer actuated by hand, wave motion, by a descending weight, compressed gas, or electricity;

Guns and explosive signals which are produced by firing of explosive charges, the former being discharged from a gun, and the latter being exploded in midair;

Fog Detector Lights—certain light stations, in addition to the main light, are equipped with fog detector lights for automatic detection of fog. These lights sweep back and forth through an area over which the fog watch is necessary, showing a powerful bluish-white flash of about 1 second in duration. The interval between successive flashes will vary with the position of the vessel within the sector. At the limits of the sector the duration of the flash may be considerably longer than 1 second.

Fog detector lights operate continuously.

Standby fog signals are sounded at some of the light and fog signal stations when the main fog signal is inoperative. Some of these standby fog signals are of a different type and characteristic than the main fog signal.

Radiobeacons, RACONs, RAMARKs, and radio direction-finders are mentioned in the List of Lights, but for detailed information, including the synchronization of radio signals and sound signals for distance finding, the navigator should consult Pub. 117, Radio Navigational Aids.

Note—use Chart No. 1 for the complete list of symbols and abbreviations commonly used in presenting the essential characteristics of lights, fog signals, and radio aids found on charts.

VISIBILITY TABLE

Table of distances at which objects can be seen at sea according to their respective elevations and the elevation of the eye of the observer.

Height in Feet	Distance in geographic or nautical miles	Height in feet	Distance in geographic or nautical miles	Height in feet	Distance in geographic or nautical miles	Height in feet	Distance in geographic or nautical miles	Height in feet	Distance in geographic or nautical miles	Height in feet	Distance in geographic or nautical miles
1	1.2	23	5.6	45	7.8	135	13.6	340	21.6	600	28.7
2	1.7	24	5.7	46	7.9	140	13.8	350	21.9	620	29.1
3	2.0	25	5.9	47	8.0	145	14.1	360	22.2	640	29.5
4	2.3	26	6.0	48	8.1	150	14.3	370	22.5	660	30.1
5	2.6	27	6.1	49	8.2	160	14.8	380	22.8	680	30.5
6	2.9	28	6.2	50	8.3	170	15.3	390	23.1	700	31.0
7	3.1	29	6.3	55	8.7	180	15.7	400	23.4	720	31.4
8	3.3	30	6.4	60	9.1	190	16.1	410	23.7	740	31.8
9	3.5	31	6.5	65	9.4	200	16.5	420	24.0	760	32.3
10	3.7	32	6.6	70	9.8	210	17.0	430	24.3	780	32.7
11	3.9	33	6.7	75	10.1	220	17.4	440	24.5	800	33.1
12	4.1	34	6.8	80	10.5	230	17.7	450	24.8	820	33.5
13	4.2	35	6.9	85	10.8	240	18.1	460	25.1	840	33.9
14	4.4	36	7.0	90	11.1	250	18.5	470	25.4	860	34.3
15	4.5	37	7.1	95	11.4	260	18.9	480	25.6	880	34.7
16	4.7	38	7.2	100	11.7	270	19.2	490	25.9	900	35.1
17	4.8	39	7.3	105	12.0	280	19.6	500	26.2	920	35.5
18	5.0	40	7.4	110	12.3	290	19.9	520	26.7	940	35.9
19	5.1	41	7.5	115	12.5	300	20.3	540	27.2	960	36.3
20	5.2	42	7.6	120	12.8	310	20.6	560	27.7	980	36.6
21	5.4	43	7.7	125	13.1	320	20.9	580	28.2	1000	37.0
22	5.5	44	7.8	130	13.3	330	21.3				

Explanation.—The line of sight connecting the observer and a distant object is at maximum length tangent with the spherical surface of the sea. It is from this point of tangency that the tabular distances are calculated. The table must accordingly be entered twice to obtain the actual geographic visibility of the object—first with the height of the object, and second with the height of the observer's eye—and the two figures so obtained must be added. Thus, if it is desired to find the maximum distance

at which a powerful light may be seen from the bridge of a vessel where the height of eye of the observer is 55 feet above the sea, from the table:

	Nautical Miles
55 feet height of observer(visible)	8.7
200 feet height of light(visible)	<u>16.5</u>
Distance visible	25.2

CONVERSION TABLE — FEET TO WHOLE METERS

(FOR HEIGHTS OF LIGHTS)

1 foot = 0.3048 meter

Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters
		40	12	80	24	120	37	160	49	200	61
1	0	41	12	81	25	121	37	161	49	300	91
2	1	42	13	82	25	122	37	162	49	400	122
3	1	43	13	83	25	123	37	163	50	500	152
4	1	44	13	84	26	124	38	164	50	600	183
5	2	45	14	85	26	125	38	165	50	700	213
6	2	46	14	86	26	126	38	166	51	800	244
7	2	47	14	87	27	127	39	167	51	900	274
8	2	48	15	88	27	128	39	168	51	1000	305
9	3	49	15	89	27	129	39	169	52		
10	3	50	15	90	27	130	40	170	52		
11	3	51	16	91	28	131	40	171	52		
12	4	52	16	92	28	132	40	172	52		
13	4	53	16	93	28	133	41	173	53		
14	4	54	16	94	29	134	41	174	53		
15	5	55	17	95	29	135	41	175	53		
16	5	56	17	96	29	136	41	176	54		
17	5	57	17	97	30	137	42	177	54		
18	5	58	18	98	30	138	42	178	54		
19	6	59	18	99	30	139	42	179	55		
20	6	60	18	100	30	140	43	180	55		
21	6	61	19	101	31	141	43	181	55		
22	7	62	19	102	31	142	43	182	55		
23	7	63	19	103	31	143	44	183	56		
24	7	64	20	104	32	144	44	184	56		
25	8	65	20	105	32	145	44	185	56		
26	8	66	20	106	32	146	45	186	57		
27	8	67	20	107	33	147	45	187	57		
28	9	68	21	108	33	148	45	188	57		
29	9	69	21	109	33	149	45	189	58		
30	9	70	21	110	34	150	46	190	58		
31	9	71	22	111	34	151	46	191	58		
32	10	72	22	112	34	152	46	192	59		
33	10	73	22	113	34	153	47	193	59		
34	10	74	23	114	35	154	47	194	59		
35	11	75	23	115	35	155	47	195	59		
36	11	76	23	116	35	156	48	196	60		
37	11	77	23	117	36	157	48	197	60		
38	12	78	24	118	36	158	48	198	60		
39	12	79	24	119	36	159	48	199	61		

RADIOBEACONS

RADIO DIRECTION-FINDER SETS ON SHIPS

Radio direction-finder sets on board ship enable bearings to be taken of transmissions from other ships, aircraft, shore stations, marine radiobeacons, and the coastal stations of the radio communication network. When located in the pilothouse or on the navigating bridge, the direction-finder enables the navigating officer to obtain bearings himself without reference to others and without delay.

Due to the great value of radio bearings, particularly when visibility is poor and when celestial observations cannot be obtained, the radio direction-finder on board ship deserves the same consideration and care as are given to the sextant and compass. It has the following characteristics in common with the two latter navigational instruments: the readings are subject to certain errors; these errors may be reduced by skillful and intelligent operation; the dangers of using erroneous readings may be greatly reduced by the intelligence and good judgment of the mariner. In order to acquire experienced judgment in the operation of the instrument, it is essential that the mariner use it as much as practicable.

Troubles from interference and weak signals are greatly reduced by the use of direction-finders of proper selectivity. The bearings must be corrected for radio deviation as shown by the calibration curve of the set.

Types of Radiobeacons

1. Directional radiobeacons which transmit radio waves in beams along fixed bearings.
2. Rotating radiobeacons by which a beam of radio waves is resolved in azimuth in a manner similar to the beam of light sent out by rotating lights.
3. Circular radiobeacons which send out waves of approximately uniform strength in all directions so that ships may take radio bearings of them by means of the ship's radio direction-finder sets. This is the most common type of radiobeacon.

To extend the usefulness of marine radiobeacons to ships and aircraft employing automatic radio direction finders, U.S. marine radiobeacons on the Atlantic and Pacific Coasts and Great Lakes have been modified to transmit a continuous carrier signal during the entire radiobeacon operating period with keyed modulation providing the characteristic signal. Unless a beat frequency oscillator is installed, the continuous carrier signals are not audible to the operator of an aural null direction finder. A ten second dash has been included in the characteristic of these radiobeacons, to enable the navigator using a conventional aural null direction finder to refine his bearing. Vessels with direction finders will be able to use the

United States radiobeacons located on the Atlantic and Pacific Coasts, and Great Lakes at any time in their assigned sequence.

Aeronautical Radio Aids

Aeronautical radiobeacons and radio ranges are often used by navigators of marine craft in the same manner as marine radiobeacons are used for determining lines of positions. They are particularly useful along coasts where marine broadcast coverage is inadequate. Aeronautical aids situated inland become less trustworthy, so far as ships are concerned, when high land intervenes between them and the coast. They are established to be of primary usefulness to aircraft, and surface craft should use these aids with caution. Only those aeronautical radiobeacons considered to be of use to the mariner have been selected for inclusion in this publication.

AERONAUTICAL RADIOBEACONS. Like marine radiobeacons, these aids broadcast a characteristic signal on a fixed frequency.

NOTE: The assigned frequency of aeronautical radiobeacons is normally from 200 to 415 kHz while the frequency of marine radiobeacons is normally from 285 to 325 kHz. Aeronautical radiobeacons not within the marine radiobeacon band will not normally be listed in this publication.

The range signals are interrupted at intervals to permit broadcast of the identification signal. In aviation publications the range leg bearings are most often given as magnetic bearings toward the station; in this publication they are given as true bearings toward the station. Unless otherwise stated in the station details, aeronautical radio aids mentioned in this publication transmit continuously.

NOTE: Mariners are advised that changes to and deficiencies in aeronautical radio facilities are not always immediately available to maritime interests and the positions are approximate and listed to the nearest minute only.

Obligations of Administrations Operating Radiobeacons

The obligations of nations and other administrations operating radiobeacons are given in Article 43 of the Radio Regulations of the International Telecommunication Union, Geneva.

Accuracy of Bearings Taken Aboard Ship

No exact rules can be given as to the accuracy to be expected in radio bearings taken by a ship as the accuracy depends to a large extent upon the skill of the ship's opera-

tor, the condition of the ship's equipment, and the accuracy of the ship's calibration curve. Mariners are urged to obtain this information by taking frequent radio bearings when their ship's position is accurately known and by recording the results. Normally, United States radiobeacons are operated in a group of six, each station in a group using the same frequency and transmitting for one minute in its proper sequence, and operate during all periods, either sequenced or continuously, regardless of weather conditions.

SKILL OF OPERATOR: Skill in the operation of the radio direction-finder can be obtained only by practice and by observing the technical instructions for the set in question. For these reasons the operator should carefully study the instructions issued with the set and should practice taking bearings frequently.

OPERATOR'S ERROR: As the operator obtains bearings by revolving the direction-finder coil until the signal disappears or becomes a minimum, the operator can tell by the size of the arc of silence or of minimum strength approximately how accurately the bearing has been taken. For instance, if the minimum is broad and the residual signal covers about 10° with equal strength, it is doubtful if the bearing can be accurately estimated. On the other hand, if a sharp minimum can be obtained, the operator can determine the bearing to within a half of a degree.

In this connection it should be noted that a properly operating and correctly adjusted direction-finder should in no case produce other than a point or arc of absolute silence. That is, there should be no "residual" signal at the point or arc of observation. The sharpness and completeness of the arc of silence are the best indications of a properly operating direction-finder, and their absence is the best indication of the presence of "night effect."

SUNRISE, SUNSET, OR NIGHT EFFECT: Bearings obtained from about half an hour before sunset to about half an hour after sunrise may be subject to errors due to night effect. On some nights this effect is more pronounced than on others and effect is usually greatest during the hours of twilight. Night effect may be detected by a broadening of the arc of minimum signals and by a fluctuation in the strength of the signals. It may also be indicated by difficulty in obtaining a minimum or by a rapidly shifting minimum. It is sometimes accompanied by an actual shift in the direction of the bearings. If it is essential to obtain a bearing when the night effect is pronounced, several bearings should be taken over a short period of time and an average taken of them.

RADIO DIRECTION FINDER WITHOUT GYRO REPEATERS: The ship's compass must be read as the bearing is taken or an error may be introduced equal to the amount that the ship has yawed in the interval between taking the bearing and reading the compass. Any error in the ship's compass must be applied to the bearing.

RECIPROCAL BEARINGS: In some direction-finder sets, the operator cannot tell from which side of the ship the signals are coming. With these sets the operator shall correct both bearings for their respective deviations and give both corrected bearings to the person who is plotting the bearings on the chart. If the mariner is in doubt as to the side of the ship from which the bearings are coming, this difficulty can usually be solved by having another bearing taken after the ship has steamed a short distance and noting in which direction the bearing is changing.

CALIBRATION: It is essential that the radio direction-finder be accurately calibrated in order that the bearings may be corrected for deviation. While the bearings are being taken, other radio antennas on board must be in the same condition as they were when the calibration was made; movable parts of the ship's superstructure such as booms, davits, wire rigging, etc., must be secured in the positions which they occupied when the direction-finder was calibrated. Unusual cargoes such as large quantities of metals and extraordinary conditions of loading may cause errors.

The direction-finder should be recalibrated after any changes have been made in the set or its surroundings (this includes alterations to or changes in position of antennas, wire rigging, boat davits, booms, etc.) whenever there is reason to believe that the previous calibration has become inaccurate, and also at periodic intervals.

The calibration must be made on approximately the same frequency or frequencies as will be used to take bearings because the deviation for several frequencies is not likely to be the same. It is believed that one calibration curve is satisfactory for the normal radiobeacon frequency (285 to 325 kHz), but the instructions issued by the manufacturer of the particular direction-finder in question should be studied in this connection.

To facilitate the calibration of ship's direction-finders, special arrangements have been made by some services for operation of their radiobeacons at times other than their published schedules. Information as to the arrangements made by the United States stations in this respect is as follows:

Sequenced radiobeacons cannot broadcast at any time other than on their assigned operating minute for the purpose of enabling vessels to calibrate their radio direction finders without causing interference. Special radio direction finder calibration transmitters of short range are operated at certain localities to provide continuous calibration service.

The position given for the antenna is the point from which the radiobeacon signal is emitted.

If it is not practicable to determine the time of calibration sufficiently in advance to contact the district commander, request may be made directly to the stations by means of telephone, telegraph, or a whistle signal consisting of three long blasts; followed by three short blasts.

This whistle signal is to be repeated until it is acknowledged by the station through the starting of the transmitter. The same group of signals should be sounded at the termination of calibration.

The work of the station personnel is not confined to standing watch and there may be times when the whistle request for calibration is not immediately heard, due to the noise from operating station machinery, etc. Usually, a repeated signal not too far from the station will attract attention.

“COMPENSATED” RADIO DIRECTION-FINDERS: Many radio direction-finders are “compensated” and no calibration chart or curve is used. Attention is invited to the fact that such compensation is just as vulnerable as the calibration data due to changes made in the set or its surroundings.

CHECK THE CALIBRATION: The calibration of compensation should be checked frequently by taking bearings when the ship’s position is accurately known and the results should be recorded for future reference.

CALIBRATION RADIOBEACONS: In the United States and certain other areas special radiobeacons, primarily for calibrating shipboard direction-finders are in operation. These radiobeacons transmit either continuously during scheduled hours or upon request, as indicated in station details.

COASTAL REFRACTION (OR LAND EFFECT): Errors may occur in bearings taken by ships so located that the line of observation to the radiobeacon passes over land or along the shore line. However, many observations seem to indicate that such errors are negligible when the observing vessel is well out from the shore. Bearings secured entirely over water areas are to be preferred since “land effect” is thus eliminated. Bearings taken at sunset and sunrise are likely to be erratic, and observations taken at these hours should therefore be repeated and checked as may be feasible.

PROGRAM BROADCASTING STATIONS: Before taking bearings on a station broadcasting entertainment programs a mariner should consider that frequency may differ widely from the frequency for which the set is calibrated, that the published location of the station may be that of its studio and not that of its transmitting antenna, that if the station is synchronized with other stations it may be impossible to tell on which station the bearing was taken, and that as the majority of these stations are inland, the coastal refraction may be excessive.

Station Details

FREQUENCY: The frequency listed is that used by the station in transmitting its “Characteristic Signal.” Calling frequencies, if any, will be given under “remarks.”

RANGE: In this book the range of radiobeacons is only approximate and is given merely to assist mariners in

planning their voyages and to inform them of several radiobeacons they will probably hear first. Frequently, when conditions for radio reception are good, radiobeacons may be heard at greater distances than indicated. The mariner who is at a greater distance than the range indicated should attempt to obtain bearings when necessary, and not assume that the radiobeacon will be unheard beyond its indicated range.

GROUP SEQUENCE: Selected radiobeacons are grouped together on the same operating frequency and are assigned a specific sequence of transmission within this group. This reduces station interference and unnecessary returning.

ANTENNA LEAD-IN: Included in the details of many radiobeacons located at or near light stations is a statement of the distance and bearing of the radiobeacon transmitting antenna from the light tower. Use should be made of this information when calibrating the ship’s direction-finding equipment by means of simultaneous visual and radio bearings.

Plotting Radio Bearings

The procedure for converting radio (great circle) bearings as received by direction-finder equipment aboard ship is identical with that used in converting radio bearings supplied by direction-finder stations on shore and is described in section 100E “Plotting Radio Bearings” of Pub. 117, Radio Navigational Aids.

Synchronization for Distance Finding

At some radiobeacon stations, sound signals, either submarine or air or both, are synchronized with the radiobeacon signals for distance finding. Ordinarily, the sound signals do not operate during the transmission period of the radio signal in clear weather. The methods in use employ, as a rule, distinctive signals to indicate the point of synchronization, and make use, for determining distance, of the lag of signals traveling through air or water as compared to the practically instantaneous travel of the radio signals.

In the case of some sound signals, a series of short radio dashes is transmitted at intervals following the synchronizing point, so that by counting the number of such short dashes heard after the distinctive radio signal and before hearing the corresponding distinctive sound signal, the observer obtains the distance, in miles equal to the number of dashes counted, from the sound signal apparatus unless stated otherwise.

In the case of other signals, the observer notes the number of seconds intervening between the reception of the distinctive radio signal and the corresponding sound signal and uses a factor to determine distances in miles as follows:

Submarine signals—multiply the observed numbers of seconds by 0.8 or divide by 1.25 distance in nautical miles.

Air signals—multiply the observed number of seconds by 0.18 or divide by 5.5. For more approximate results or for statute miles, multiply the observed number of seconds by 0.2 or divide by 5.

Tables for finding distance

Interval in seconds	Distances in nautical miles from sound signal source	
	Air	Submarine
1	0.18	0.8
2	0.36	1.6
3	0.54	2.4
4	0.72	3.2
5	0.90	4.0
6	1.08	4.8
7	1.26	5.6
8	1.44	6.4
9	1.62	7.2
10	1.80	8.0
20	3.60	16.0
30	5.40	24.0
40	7.20	
50	9.00	
60	10.80	

REMARKS: Average speed of sound travel in water is 1 nautical mile in 11/4 seconds.

The speed of sound travel is influenced by a number of conditions making it impracticable to state a factor that will give exact results under all conditions. The results obtained by the methods described may be accepted as being accurate to within 10 percent of the distance.

Methods of synchronizing the signals vary and are described or illustrated in official announcements regarding them. It is essential to note carefully the point of synchronization used so that no error will be made through taking time on the wrong signal or the wrong part of it.

In observing air signals it is usually sufficient to use a watch with second hand, although a stop watch is helpful. For submarine signals where the interval is shorter and a time error correspondingly more important, it is essential that a stop watch or other timing device be used. Where the radiobeacon and submarine signals are not received at the same point on the vessel, means of instant communication between two observers should be available or synchronized stop watches provided for each.

Ships not equipped with a DF receiver can take advantage of the distance-finding feature of a radiobeacon station, if equipped with a radio receiver capable of receiving

the transmission. In the case of obtaining distance from a radiobeacon station which is synchronized with a submarine sound signal, the ship must also be equipped with a device for picking up submarine sound signals.

Rotating Loop Radiobeacon

MODE OF OPERATION:

(1) The radiobeacon consists of a rotating loop transmitter having directional properties by which an observer in a ship can obtain his bearing from the beacon without the use of a direction-finder. Any ordinary receiving set capable of being tuned to the radiobeacon's frequency may be used. The only other equipment required is a reliable stop watch or chronograph with a sweep second hand. Stop watches and clocks with dials graduated in degrees may be used, from which bearings may be read directly without any mathematical calculation.

(2) During each revolution of the beacon, the signals received by the observer will rise and fall in intensity, passing through a maximum and a minimum twice each minute. The positions of minimum intensity, which occur at intervals of thirty seconds from one another, are very sharp and can be accurately observed. These are, therefore, used for navigation purposes.

The beacon may be regarded as having a line or beam of minimum intensity which rotates at a uniform speed of 360° in 1 minute (i.e. 6° in 1 second) based on the true meridian as starting point. Therefore, if the observer can (a) identify the beacon and (b) measure the number of seconds which this minimum beam takes to reach their position starting from the true meridian, this number multiplied by six will give their true bearing from the beacon or its reciprocal.

The signals which enable the beacon to be identified and the bearing to be calculated are described in the following paragraphs:

Signals transmitted by the beacon: Each transmission from the beacon lasts for 4 minutes; the beacon is then silent for 8 minutes, and automatically starts again at the end of the silent period. Each transmission consists of two parts: (a) the identification signal of the station set at a slow speed for the first minute, commencing when the minimum beam is true east and west and followed by a long dash of about 12 seconds duration; (b) the signal group commencing when the minimum beam is approaching the true meridian, and consisting of (i) the north starting signal, which is the letter V followed by two dots (•• — ••); (ii) a long dash of about 12 seconds duration; (iii) the east starting signal, which is the letter B followed by two dots (— •• ••); and (iv) a long dash for about 42 seconds.

The navigation signals are repeated during the remainder of the transmission and signals cease when the minimum beam is in the east and west position.

INSTRUCTIONS FOR TAKING BEARINGS

- (i) Set stop watch to zero.
- (ii) Listen for identification signal.
- (iii) When the first long dash begins (at A on diagram) get ready for the "north signal."
- (iv) After the "north signal," start stop watch exactly at beginning of long dash (see "00 seconds" on diagram) counting one-two with the two preceding dots, and 3 for the start of the stop watch.
- (v) Listen for minimum and note its exact time by stop watch.

NOTE: If stop watch is graduated in degrees note exact angle, which is the bearing.

- (vi) Multiply number of seconds by 6° for bearing.
- (vii) Determine whether bearing is direct or reciprocal.
- (viii) If the "north signal" is faint, use the "east signal," but add 090° to final bearing.

Particular attention is directed to the following:

- (a) The stop watch must be started exactly at the beginning of the long dash for each series of observations.
- (b) The time of occurrence of the minimum must be read to the nearest fifth of a second.
- (c) The bearing obtained will be either the direct bearing or its reciprocal.
- (d) When using the east signal, add 090° to obtain bearings from true north.
- (e) The beacon is set up on the true meridian, and no correction is required for magnetic variation.
- (f) No quadrantal error arises, and no corrections are necessary except as in (c) and (d) above.

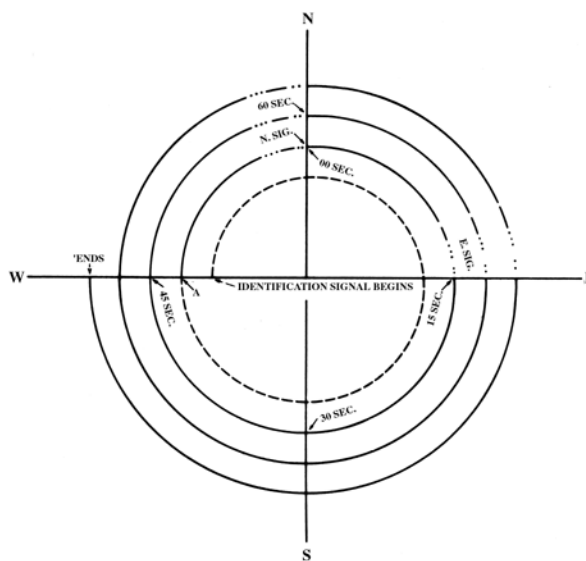
(A correction must, of course, be made for convergency; this should be applied as if the beacon were a shore radio direction-finder station.)

(g) A comparatively large error of bearing may occur due to inaccuracy in the stop watch, and to obviate this,

observers or navigators should check their stop watches on the beacon station before taking bearings. This can easily be done by checking the time by stop watch of the complete revolution of the beacon transmission. Any error found can then be allowed for.

Caution

Due to the many factors which enter into the transmission and reception of radio signals, a mariner cannot practically estimate its distance from a radiobeacon either by the strength of the signals received or by the time at which the signals were first heard. Mariners should give this fact careful consideration in approaching radiobeacons. A diagram showing the signals used is given below.



ROTATING RADIOBEACON
SIGNAL DIAGRAM

DESCRIPTION

(Radiobeacons)

Information is tabulated in eight columns as follows:

column 1: The number assigned to each radiobeacon by this Agency.

column 2: Name and/or descriptive location of the radiobeacon.

column 3: Approximate latitude and longitude of the radiobeacon to the nearest tenth of a minute.

column 4: Radiobeacon characteristics. Included in this column are the Morse code, period in seconds, length of transmission and silence time.

column 5: Range (approximate) in nautical miles.

column 6: Group sequence. Selected radiobeacons are grouped together on the same operating frequency and are assigned a specific sequence of transmission within this group. This reduces station interference and unnecessary return.

column 7: Frequency (given in kilohertz) and amplitude modulation (see Table Symbols).

column 8: Remarks. Transmission synchronization, type of radiobeacon (marine, aero, etc.), calibration, antenna lead-in, calling frequencies, distance-finding information, service charges, hours of transmission, directional signals and other pertinent information.

ABBREVIATIONS

aero aeronautical
tr. transmission
si silence
s seconds
(4) 4 times
Transmission is continuous unless otherwise stated.

TABLE OF SYMBOLS

LEGEND

- (1) Type of modulation of the main carrier.
- (2) Nature of signal(s) modulating the main carrier.
- (3) Type of “information” to be transmitted. “Information” does not include information of a constant, unvarying nature such as provided by standard frequency emissions, continuous wave and pulse radars, etc.

AMPLITUDE MODULATION:

N0N

- (1) Emission of an unmodulated carrier.
- (2) No modulating signal.
- (3) No information transmitted.

A1A

- (1) Double-sideband.
- (2) Single channel containing quantized or digital information without the use of a modulating subcarrier.
- (3) Telegraphy (for aural reception).

A2A

- (1) Double-sideband.
- (2) Single channel containing quantized or digital information with the use of a modulating subcarrier.
- (3) Telegraphy (for aural reception).

A3E

- (1) Double-sideband.
- (2) Single channel containing analog information.
- (3) Telephony (including sound broadcasting).

R3E

- (1) Single-sideband (reduced or variable level carrier).
- (2) Single channel containing analog information.
- (3) Telephony (including sound broadcasting).

B8E

- (1) Independent sidebands.
- (2) Two or more channels containing analog information.
- (3) Telephony (including sound broadcasting).

H2A

- (1) Single-sideband (full carrier).
- (2) Single channel containing quantized or digital information with the use of a modulating subcarrier.
- (3) Telegraphy (for aural reception).

H3E

- (1) Single-sideband (full carrier).
- (2) Single channel containing analog information.
- (3) Telephony (including sound broadcasting).

J3E

- (1) Single-sideband (suppressed carrier).
- (2) Single channel containing analog information.
- (3) Telephony (including sound broadcasting).

A3C

- (1) Double-sideband.
- (2) Single channel containing analog information.
- (3) Facsimile.

A3F

- (1) Double-sideband.
- (2) Single channel containing analog information.
- (3) Television (video).

B7D

- (1) Independent sidebands.
- (2) Two or more channels containing quantized or digital information.
- (3) Data transmissions, telemetry, telecommand.

Note: With 6 kHz. EDW operation in the bands below 30 MHz allocated exclusively for Maritime Mobile Service (FC, MO).

FREQUENCY (OR PHASE) MODULATION:**F1B**

- (1) Frequency modulation.
- (2) Single channel containing quantized or digital information without the use of a modulating subcarrier.
- (3) Telegraphy (for automatic reception).

F2A

- (1) Frequency modulation.
- (2) Single channel containing quantized or digital information with the use of a modulating subcarrier.
- (3) Telegraphy (for aural reception).

F3E

- (1) Frequency modulation.
- (2) Single channel containing analog information.
- (3) Telephony (including sound broadcasting).

F3C

- (1) Frequency modulation.
- (2) Single channel containing analog information.
- (3) Facsimile.

F3F

- (1) Frequency modulation.
- (2) Single channel containing analog information.
- (3) Television (video).

P1B

- (1) Sequence of unmodulated pulses.
- (2) Single channel containing quantized or digital information without the use of a modulating subcarrier.
- (3) Telegraphy (for automatic reception).

Pulse Modulation:

GHz = gigahertz

kHz = kilohertz

MHz = megahertz

DIFFERENTIAL GLOBAL POSITIONING SYSTEM (DGPS)

Differential Global Positioning System (DGPS) is a radio-based navigation system that eliminates errors in a GPS receiver that will allow the accuracy level to be significantly enhanced. DGPS accuracy can be 10 meters or better, compared with 100 meters or better with GPS. This is possible by placing a high-performance GPS receiver (reference station) at a known location. Because the receiver knows its exact location, it can determine the errors in the satellite signals. The satellite measures the ranges to each satellite using the signals received and comparing these measured ranges to the actual ranges calculated from its known position. The total error is the difference between the measured and calculated range. The error data for each tracked satellite is formatted into a correction message and transmitted to GPS users. The correction message format follows the standard established by the Radio Technical Commission for Maritime Services, Special Committee 104 (RTCM-SC104). These differential corrections are then applied to the GPS calculations, thus removing most of the satellite signal error and improving accuracy.

Terms for understanding DGPS:

DGPS Correction Receiver

A DGPS correction receiver decodes the signals received from a reference site. Data is formatted into a serial RTCM SC104 data stream and provided to the remote GPS receiver. There are many types of DGPS correction receivers.

GPS Receivers

The GPS receiver measures ranges to each satellite, but before the measurements are used to calculate position, corrections received from the DGPS receiver are applied to the measurements. The position is then calculated using the corrected range measurements providing vastly increased accuracy.

Modulator

Depending on the transmission format, the modulator encodes the data as necessary for transmission.

Reference Station

The reference station GPS receiver knows exactly the position of its antenna, therefore it knows what each satellite range measurement should be. It measures the ranges to each satellite using the received signals just as if it was going to calculate position. The measured ranges are subtracted from the known ranges and the result is range error. The range error values for each satellite are formatted into messages in the RTCM SC104 format and transmitted continuously.

Transmitter

The transmitter is basically a power amplifier which is connected to an antenna system. The modulated carrier is amplified and driven to the antenna. In the United States Coast Guard system, the transmitter is 250-1000 Watts and operates in the 300Khz frequency range. The amplified signal is radiated via the antenna to remote DGPS receivers for real-time position correction.

DESCRIPTION

(Differential GPS Stations)

Information is tabulated in eight columns as follows:

column 1: The number assigned to each DGPS Station by this Agency.

column 2: Name of the DGPS Station

column 3: Approximate latitude and longitude of the DGPS Transmitting Station to the nearest tenth of a minute.

column 4: Station ID which can be found in the IALA Master list. No two stations have the same ID. **T** denotes the Transmitting Station, **R** denotes the Reference Station.

column 5: Range (approximate) in nautical miles.

column 6: Frequency in kHz.

column 7: Transfer Rate which equates to the baud rate and will be published as a whole number without any additional abbreviations such as “bps” (bits per second)

column 8: Remarks. This column contains information about the reference stations and messages types transmitted. GPS Message Type Numbers are 1, 3, 4, 5, 6, 7, 9, 15 and 16. (*Refer to message type descriptions below*)

GPS MESSAGE TYPE NUMBER INDICATORS

1	Differential GNSS corrections (full set of satellites)
3	Reference stations parameters
4	Datum used
5	Constellation health
6	Null frame (no information)
7	Radiobeacons Almanacs
9	Sub-set differential GNSS corrections
15	Ionospheric corrections
16	Special messages

Section 1

West Coast of France

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-WEST COAST							
ILE D'OUessant:							
4 A 1844	-Pointe de Creach.	48° 27.6' N 5° 07.8' W	Fl.(2)W. period 10s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 7.4s	230 70	32	White round tower, black bands; 180.	Obscured 247°-255°. Radio Direction Finder. Nautophone: 2 bl. ev. 120s (bl. 2s, si. 3s, bl. 2s, si. 113s).
	-RACON		C(- • - •) period 150s		20		Azimuth coverage 248°-030°.
8 A 1519	-NE. buoy, traffic separation scheme.	48° 46.0' N 5° 11.6' W	L.Fl.W. period 10s			SAFE WATER RW, pillar.	Whistle.
	-RACON		B(- • • •)		20		
12 A 1518	--SW. LANBY.	48° 31.2' N 5° 49.1' W	Fl.W. period 4s fl. 0.5s, ec. 3.5s	33 10	20	SAFE WATER RW.	
	--RACON		M(- -)		12		
16 A 1842	-Le Stiff.	48° 28.5' N 5° 03.4' W	Fl.(2)R. period 20s fl. 0.1s, ec. 4.9s fl. 0.1s, ec. 14.9s	279 85	24	Two adjoining round white towers; 105.	Radar tower 0.2 mile N. marked by Q.W. (occas.) by day and F.R. by night.
18 A 1843	--Port du Stiff, E. mole, head.	48° 28.2' N 5° 03.2' W	Dir.Q.W.R.G.	36 11	W. 10 R. 7 G. 7	Tower.	G. 251°-254°, W.-264° R.-267°, obsc.-251°.
20 A 1846	Nividic (An-Ividig).	48° 26.8' N 5° 09.1' W	V.Q.(9)W. period 10s	92 28	10	Gray octagonal stone tower; 118. Helicopter platform.	Obscured by Ile d'Ouessant 225°-290°.
24 A 1848	-La Jument.	48° 25.4' N 5° 08.1' W	Fl.(3)R. period 15s fl. 0.3s, ec. 2.7s fl. 0.3s, ec. 2.7s fl. 0.3s, ec. 8.7s	118 36	22	Gray octagonal tower, red top; 157.	Obscured 199°-241°. Danger signals. Horn: 3 bl. ev. 60s.
32 A 1850	Men-Tensel (Kereon).	48° 26.3' N 5° 01.6' W	Oc.(2+1)W.R. period 24s lt. 9s, ec. 1s lt. 9s, ec. 1s lt. 3s, ec. 1s	125 38	W. 17 R. 7	Gray tower; 134.	W. 019°-248°, R.-019°. Nautophone: 3 bl. ev. 120s (bl. 4s, si. 3s, bl. 2s, si. 51s, bl. 4s, si. 56s).
36 A 1852	Men-Korn.	48° 28.0' N 5° 01.4' W	V.Q.(3)W.R. period 5s	68 21	8	E. CARDINAL BYB, tower, topmark; 95.	W. 145°-040°, R.-145°.
40 A 1870	Les Trois Pierres, NE. of Molene.	48° 24.7' N 4° 56.8' W	Iso.W.R.G. period 4s	49 15	W. 9 R. 6 G. 6	White round column; 49.	W. 147°-185°, R.-191°, G.-197°, W.-213°, R.-070°, G.-147°.
44 A 1871	Ile Molene, mole, head.	48° 23.9' N 4° 57.3' W	Dir.Fl.(3)W.R.G. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	19 6	W. 9 R. 7 G. 7	Column on hut; 16.	G. 183°-190°, W.-192°, R.-203°.
			Dir.Fl.(2)W.R.G. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	29 9	W. 9 R. 7 G. 7		G. 252°30'-259°30', W.-262°30', R.-269°30'.
48 A 1854	Le Four.	48° 31.4' N 4° 48.3' W	Fl.(5)W. period 15s fl. 0.4s, ec. 1.7s fl. 0.4s, ec. 1.7s fl. 0.4s, ec. 1.7s fl. 0.4s, ec. 1.7s fl. 0.4s, ec. 6.2s	92 28	18	Gray tower; 92.	Horn: 5 bl. (3+2) ev. 60s.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-WEST COAST							
52 A 1856	-Aber Ildut.	48° 28.3' N 4° 45.6' W	Dir.Oc.(2)W.R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	40 12	W. 25 R. 20	White buildings; 16.	W. 081°-085°, R.-087°.
56 A 1862	-Le Faix.	48° 25.8' N 4° 53.9' W	V.Q.W.	52 16	8	N. CARDINAL BY, tower, topmark; 69.	
60 A 1860	-Les Platresses.	48° 26.3' N 4° 50.9' W	Fl.R.G. period 4s fl. 1s, ec. 3s	56 17	6	White tower; 75.	R. 343°-153°, G.-333°, obscured elsewhere.
76 A 1873.9	-Trezien.	48° 25.4' N 4° 46.8' W	Dir.Oc.(2)W. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	276 84	20	Gray tower, white on S. side; 120.	Intensified from 003°-011° over range 007° with Kermorvan.
80 A 1876	-Pointe de Corsen.	48° 24.9' N 4° 47.7' W	Dir.Q.W.R.G.	108 33	W. 12 R. 8 G. 8	White hut and walls; 10.	R. 008°-012°, W.-015°, G.-021°. F.R. obstruction light on mast 400 meters ESE. Signal station.
84 A 1874	-Kermorvan.	48° 21.7' N 4° 47.4' W	Fl.W. period 5s fl. 0.3s, ec. 4.7s	66 20	22	White square tower; 65.	In line 158°30' with St. Mathieu Point, 007° with Trezien, and 137°54' with Lochrist. Obscured when bearing less than 341°. Horn: 1 bl. ev. 60s.
88 A 1880	-Lochrist.	48° 20.6' N 4° 45.9' W	Dir.Oc.(3)W. period 12s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 4.5s, ec. 1.5s	161 49	22	White octagonal concrete tower, red top; 55.	Intensified 135°24'-140°24'. In line 137°54' with Kermorvan.
92 A 1872	-La Grande Vinotiere.	48° 22.0' N 4° 48.5' W	L.Fl.R. period 10s fl. 3s, ec. 7s	49 15	5	Red octagonal tower; 80.	
104 A 1874.1	-St. Mathieu.	48° 19.8' N 4° 46.3' W	Fl.W. period 15s fl. 0.2s, ec. 14.8s	184 56	29	White tower, red top; 121.	Radiobeacon.
			Dir.F.W.	177 54	28		Intensified 157°30'-159°30' over range 158° with Kermorvan.
108 A 1875	--Auxiliary, about 54 meters 291° from St. Mathieu.	48° 19.9' N 4° 46.2' W	Q.W.R.G.	85 26	W. 14 R. 11 G. 11	White turret.	G. 085°-107°, W.-116°, R.-134°.
112 A 1884	-Les Vieux Moines, Pointe de St. Mathieu, SW. head.	48° 19.4' N 4° 46.5' W	Fl.R. period 4s fl. 1s, ec. 3s	53 16	5	Red octagonal tower; 62.	Visible 280°-133°.
116 A 1886	-Les Pierres Noires.	48° 18.7' N 4° 54.9' W	Fl.R. period 5s fl. 0.4s, ec. 4.6s	89 27	19	White tower, red top; 92.	Danger signals. Horn: 2 bl. ev. 60s.
136 D 0820	-La Parquette.	48° 15.9' N 4° 44.3' W	Fl.R.G. period 4s fl. 1s, ec. 3s	56 17	R. 6 G. 6	Tower, black and white spiral bands; 82.	R. 244°-285°, G.-244°.
140 D 0818	-Pointe du Toulinguet.	48° 16.8' N 4° 37.8' W	Oc.(3)W.R. period 12s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	161 49	W. 15 R. 11	White square tower, on building; 45.	W. shore-028°, R.-090°, W.- shore.
144 D 0816	-Camaret-Sur-Mer, N. mole extension.	48° 16.9' N 4° 35.5' W	Iso.W.G. period 4s	23 7	W. 12 G. 8	White and green pylon; 24.	W. 135°-182°, G.-027°.
148 D 0817	--S. mole.	48° 16.7' N 4° 35.4' W	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	29 9	5	Red pylon; 26.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-WEST COAST							
152 <i>D 0790</i>	-Pointe du Petit-Minou.	48° 20.2' N 4° 36.9' W	Fl.(2)W.R. period 6s fl. 1s, ec. 1s fl. 3s, ec. 1s	105 32	W. 19 R. 15	Gray tower, white on SW. side, red top; 85.	R. shore 252°, W.-260°, R.- 307°, W. (unint.)-015°, W.- 065°30', obsc.-070°30', W.- shore. Siren: 1 bl. ev. 60s.
--			Dir.Q.W.	98 30	23	Same tower; 72.	Intensified 067°18'-068°48'. In range 068° with Pointe du Portzic light.
156 <i>D 0794</i>	-I.F.R.E.M.E.R., dolphin, SE. side.	48° 21.6' N 4° 33.0' W	Fl.R. period 2s fl. 0.4s, ec. 1.6s	3 1	2	Dolphin; 6.	
160 <i>D 0790.1</i>	-Pointe Du Portzic.	48° 21.6' N 4° 32.0' W	Oc.(2)W.R. period 12s lt. 2.5s, ec. 1.5s lt. 6.5s, ec. 1.5s	184 56	W. 19 R. 15	Gray octagonal tower; 115.	Visible W. of Le Goulet 041°- 069° R. 219°-259°, W.-338°, R.-000°, W.-065°30', obsc.-070°30', W.-219°. Signal station.
--	Directional light.		Dir.Q.W.	177 54	22		Intensified 065°-071°.
--	Directional light.		Dir.Q.(6)+L.Fl.W. period 15s	177 54	23		Intensified 045°-050°.
168 <i>D 0792</i>	-Roche Mengam, in Goulet de Brest.	48° 20.4' N 4° 34.5' W	Fl.(3)W.R. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	36 11	W. 11 R. 8	ISOLATED DANGER BRB, tower beacon, topmark; 49.	R. 034°-054°, W.-034°.
BREST:							
-Rade-Abri:							
176 <i>D 0798</i>	--E. breakwater, head.	48° 22.2' N 4° 29.2' W	Q.G.	33 10	8	White tower, green top; 33.	Visible 299°-163°. Various lights shown inside port.
178 <i>D 0796</i>	---W. breakwater, head.	48° 22.1' N 4° 29.3' W	Q.R.	33 10	8	White tower, red top; 30.	Visible 094°-048°.
180 <i>D 0799</i>	--Range, front.	48° 22.8' N 4° 29.5' W	V.Q.W.R.G.	79 24	W. 10 R. 5 G. 5	White round tower.	G. 334°-342°, W.-346°, R.-024°.
180.1 <i>D 0799.1</i>	---Rear, 118 meters 344° from front.	48° 22.4' N 4° 29.4' W	Dir.V.Q.W.	105 32	10	On building.	Intensified 342°-346°.
182 <i>D 0801</i>	--Jean-Bart Quay Range, front.	48° 22.9' N 4° 29.9' W	Dir.Iso.R. period 5s	30 9		White pylon with red top; 26.	Intensified 309°-319°.
182.1 <i>D 0801.1</i>	---Rear, 17 meters 314° from front.	48° 22.9' N 4° 30.0' W	Dir.Iso.R. period 5s	52 16		E. corner of building; 49.	Intensified 309°-319°. Synchronized with front.
-Commercial Port:							
184 <i>D 0806</i>	--Breakwater, W. entrance, S. side.	48° 22.6' N 4° 29.2' W	Fl.G. period 4s	33 10	4	White tower, green top; 33.	Visible 022°-257°.
188 <i>D 0804</i>	--W. jetty, head.	48° 22.7' N 4° 29.0' W	Iso.R. period 4s	33 10	7	White column, red top; 36.	
192 <i>D 0802</i>	--Detached breakwater, E. entrance, S. side.	48° 22.7' N 4° 28.5' W	Oc.(2)R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	26 8	5	White pylon, red top; 23.	Obscured 301°-018°.
196 <i>D 0803</i>	--W. jetty, head.	48° 22.8' N 4° 28.6' W	Oc.(2)G. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	26 8	7	White tower, green top; 29.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-WEST COAST							
POINTE DE L'ILE LONGUE							
200 <i>D 0814.5</i>	-Range, front.	48° 18.4' N 4° 30.1' W	F.R.				Occasional.
200.1 <i>D 0814.51</i>	-- Rear, 60 meters 281° from front.	48° 18.4' N 4° 30.1' W	F.R.				Occasional.
BAIE DE DOUARNENEZ:							
208 <i>D 0829</i>	-Basse Vielle Buoy.	48° 08.3' N 4° 35.7' W	Fl.(2)W. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s			ISOLATED DANGER BRB, pillar, topmark.	Whistle. Radar reflector.
212 <i>D 0826</i>	-Pointe de Morgat.	48° 13.2' N 4° 29.9' W	Oc.(4)W.R.G. period 12s lt. 5s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s	253 77	W. 15 R. 11 G. 10	White square tower, dwelling, red top; 50.	W. north shore-281°, G.-301°, W.-021°, R.-043°, obscured on bearings greater than 027°.
216 <i>D 0828</i>	-Morgat, mole.	48° 13.5' N 4° 30.0' W	Oc.(2)W.R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	26 8	W. 9 R. 6	White tower, red top, white hut; 20.	W. 007°-257°, R.-007°.
-Douarnenez:							
220 <i>D 0830</i>	-Ile Tristan.	48° 06.2' N 4° 20.3' W	Oc.(3)W.R. period 12s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	115 35	W. 13 R. 10	Gray tower, white band, black top; 35.	R. 138°-153°, W. elsewhere.
224 <i>D 0831</i>	--Bassin Nord, N. mole, head.	48° 06.0' N 4° 19.3' W	Iso.G. period 4s	30 9	4	White and green pylon; 26.	
228 <i>D 0831.2</i>	---S. mole, head.	48° 05.9' N 4° 19.3' W	Oc.(2)R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	19 6	6	White and red pylon; 15.	
232 <i>D 0832</i>	--Rosmeur, mole.	48° 05.9' N 4° 19.3' W	Oc.G. period 4s lt. 3s, ec. 1s	20 6	6	White column with green top; 19.	Visible 170°-097°.
236 <i>D 0834</i>	--Treboul, Epi de Biron.	48° 06.1' N 4° 20.4' W	Q.G.	23 7	6	White column with green top; 22.	
240 <i>D 0836</i>	-Point du Millier.	48° 05.9' N 4° 27.9' W	Oc.(2)W.R.G. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	112 34	W. 16 R. 12 G. 11	White dwelling; 26.	G. 080°-087°, W.-113°, R.-120°, W.-129°, G.-148°, W.-251°, R.-258°.
CHAUSEE DE SEIN:							
248 <i>D 0852</i>	-Ar-Men.	48° 03.0' N 4° 59.8' W	Fl.(3)W. period 20s fl. 0.4s, ec. 3.6s fl. 0.4s, ec. 3.6s fl. 0.4s, ec. 11.6s	94 29	23	White tower, dark base, black top; 120.	
252 <i>D 0856</i>	-Ile de Sein.	48° 02.6' N 4° 52.1' W	Fl.(4)W. period 25s fl. 0.1s, ec. 2.9s fl. 0.1s, ec. 2.9s fl. 0.1s, ec. 2.9s fl. 0.1s, ec. 15.9s	161 49	29	White tower, black top; 167.	
256 <i>D 0860</i>	-Men-Brial.	48° 02.3' N 4° 51.0' W	Oc.(2)W.R.G. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	52 16	W. 12 R. 9 G. 7	White and green tower; 45.	G. 149°-186°, W.-192°, R.-221°, W.-227°, G.-254°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-WEST COAST							
264 <i>D 0858</i>	Ar Gueueur FOG SIGNAL.	48° 02.0' N 4° 51.4' W				White tower; 54.	Diaphone: 1 bl. ev. 60s.
RAZ DE SEIN:							
268 <i>D 0862</i>	-Le Chat.	48° 01.5' N 4° 48.8' W	Fl.(2)W.R.G. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	90 27	W. 9 R. 6 G. 6	S. CARDINAL YB, tower, topmark; 102.	G. 096°-215°, W.-230°, R.-271°, G.-286°, R.-096°. Radar reflector.
272 <i>D 0870</i>	-La Vielle.	48° 02.5' N 4° 45.4' W	Oc.(2+1)W.R.G. period 12s lt. 4s, ec. 1s lt. 4s, ec. 1s lt. 1s, ec. 1s	108 33	W. 18 R. 13 G. 14	Gray tower, black top; 88.	W. 290°-298°, R.-325°, W.-355°, G.-017°, W.-035°, G.-105°, W.-123°, R.-158°, W.-205°. Horn: 3 bl. ev. 60s (bl. 2s, si. 3s, bl. 5s, si. 23s, bl. 2s, si. 25s).
274 <i>D 0850</i>	Chaussee de Sein Buoy.	48° 03.8' N 5° 07.7' W	V.Q.(9)W. period 10s			W. CARDINAL YBY, pillar, topmark.	Whistle. Radar reflector.
RACON			O(---) period 150s		10		
276 <i>D 0866</i>	--Tevennec.	48° 04.3' N 4° 47.6' W	Q.W.R.	92 28	W. 9 R. 6	White square tower, dwelling; 49.	R. 345°-090°, W.-345°.
			Dir.Fl.W. period 4s fl. 1s, ec. 3s	79 24	12		Intensified 324°-332°. Auxiliary light.
284 <i>D 0872</i>	La Plate.	48° 02.4' N 4° 45.5' W	V.Q.(9)W. period 10s	62 19	8	W. CARDINAL YBY, tower, topmark; 85.	
AUDIERNE:							
288 <i>D 0877.1</i>	-Kergadec.	48° 01.0' N 4° 32.8' W	Dir.Q.W.R.G.	141 43	W. 12 R. 9 G. 9	White octagonal tower, red top; 49.	G. 000°-005°18', W.-006°42', R.-017°.
			F.R.	144 44	9		Intensified 321°-341°. In line 331° with Raoulic jetty light for Passe de l'Est.
292 <i>D 0875</i>	-Jetee de Ste. Evette, head.	48° 00.3' N 4° 33.1' W	Oc.(2)R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	7 2	7	Red lantern; 3.	Visible 090°-360°.
296 <i>D 0877</i>	-Raoulic, jetty, head.	48° 00.6' N 4° 32.5' W	Fl.(3)W.G. period 12s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 6.5s	36 11	W. 14 G. 9	White tower; 35.	W. shore-034°, G.-shore.
300 <i>D 0874</i>	-Pointe de Lervily.	48° 00.1' N 4° 34.0' W	Fl.(3)W.R. period 12s	66 20	W. 14 R. 11	White round tower, red top; 40.	W. 211°-269°, R.-294°, W.-087°, R.-121°.
304 <i>D 0884</i>	Pors-Poulhan, entrance, W. side.	47° 59.1' N 4° 28.0' W	Q.R.	45 14	9	White tower, red top; 19.	
308 <i>D 0890</i>	Pointe de Penmarc'h.	47° 47.9' N 4° 22.4' W	Fl.W. period 5s fl. 0.1s, ec. 4.9s	197 60	23	Gray octagonal tower; 213.	Horn: 1 bl. ev. 60s.
SAINT GUENOLE:							
312 <i>D 0886</i>	-Groumilli Range, front.	47° 48.2' N 4° 22.6' W	F.G.	30 9	9	Column, black and white bands, orange square; 36.	
316 <i>D 0886.1</i>	--Rear, 300 meters 123° from front.	47° 48.1' N 4° 22.4' W	F.G.	43 13	9	Column, black and white bands, orange square; 45.	
320 <i>D 0885</i>	-Entrance Range, front.	47° 49.1' N 4° 22.6' W	Q.R.	26 8	4	Red mast; 42.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-WEST COAST							
324 <i>D 0885.1</i>	--Rear, 51 meters 026°30' from front.	47° 49.1' N 4° 22.6' W	Q.R.	39 12	4	Mast, red and white bands; 33.	Synchronized with front.
328 <i>D 0887</i>	--Range, front.	47° 48.8' N 4° 22.6' W	V.Q.W.	16 5	2	Platform on green and white metal mast.	
332 <i>D 0887.1</i>	--Rear, 320 meters 055°24' from front.	47° 48.9' N 4° 22.4' W	F.Vi.	49 15	1	Platform on green and white metal mast.	Visible 040°-070°.
336 <i>D 0893</i>	--Scoedec.	47° 48.5' N 4° 23.1' W	Fl.G. period 2.5s fl. 0.4s, ec. 2.1s	20 6	3	Green tower; 23.	
344 <i>D 0892</i>	La Menhir, Penmarc'h, W. extremity of rocks.	47° 47.8' N 4° 23.9' W	Fl.(2)W.G. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	62 19	W. G.	7 4	Black and white tower; 69. W. 315°-135°, G.-315°.
348 <i>D 0894</i>	Locarec Rock.	47° 47.3' N 4° 20.3' W	Iso.W.R.G. period 4s	36 11	W. R. G.	9 6 6	Metal column on rock; 26. G. 063°-068°, R.-271°, W.-285°, R.-298°, G.-340°, R.-063°. Fl.R. and Fl.G. lights mark channel.
GUILVINEC:							
364 <i>D 0896</i>	--Mole de Lechiagat, entrance Range, front.	47° 47.3' N 4° 17.0' W	Q.W.	23 7	8	White pylon; 20.	Visible 233°-066°.
366 <i>D 0896.05</i>	--Middle, 210 meters 053° from front.	47° 47.5' N 4° 17.0' W	Q.W.G.	39 12	W. G.	14 11	Red pylon, square daymark; 36. W. 006°-293°, G.-006°. Synchronized with front.
368 <i>D 0896.1</i>	--Rear, 1043 meters 053° from front.	47° 47.8' N 4° 16.5' W	Dir.Q.W.	85 26	8	White tower, red stripe, red square daymark; 82.	Visible 051°30'-054°30'. Synchronized with front.
372 <i>D 0899</i>	--Mole de Lechiagat, head.	47° 47.5' N 4° 17.1' W	Fl.G. period 4s fl. 1s, ec. 3s	16 5	7	White hut, green top; 10.	Fl.(2)G. shown at head of spur.
376 <i>D 0900</i>	--Mole de Guilvinec.	47° 47.6' N 4° 17.0' W	Fl.R. period 4s fl. 1s, ec. 3s	36 11	9	White tower, upper part red; 33.	Fl.(2)R. shown at head of spur.
377 <i>D 0901</i>	--Spur mole.	47° 47.5' N 4° 17.1' W	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	13 4	5	Red structure; 7.	
380 <i>D 0898</i>	--Lost-Moan.	47° 47.1' N 4° 16.7' W	Fl.(3)W.R.G. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	26 8	W. R. G.	9 6 6	White tower, red top; 42. W. 268°-273°, G.-317°, W.-327°, R.-014°, G.-065°, R.-140°, W.-160°, R.-268°.
384 <i>D 0899.2</i>	--Epi.	47° 47.5' N 4° 17.0' W	Fl.(2)G. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	13 4	5	Green structure; 6.	Visible 078°-258°.
388 <i>D 0902</i>	Lesconil, on Men-ar-Groas Rock.	47° 47.8' N 4° 12.6' W	Fl.(3)W.R.G. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	46 14	W. R. G.	10 7 7	White tower, green top; 36. G. 268°-313°, W.-333°, R.-050°.
392 <i>D 0904</i>	--E. breakwater, head.	47° 47.8' N 4° 12.6' W	Q.G.	16 5	5	Round green tower; 13.	
393 <i>D 0904.5</i>	--Mole, head.	47° 47.7' N 4° 12.6' W	Oc.R. period 4s	16 5	6	White metal pylon, red top; 13.	
396	Karek-Greis Whistle Buoy.	47° 46.1' N 4° 11.4' W	Q.(3)W. period 10s			E. CARDINAL BYB, pillar, topmark.	Whistle.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-WEST COAST							
RIVIERE L'ABBE:							
400 <i>D 0906</i>	-Loctudy.	47° 49.9' N 4° 09.6' W	Fl.(4)W.R.G. period 12s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	41 12	W. 15 R. 11 G. 11	White round tower, red top; 43.	W. 115°-257°, G.-284°, W.-295°, R.-318°, W.-328°, R.-025°.
408 <i>D 0909</i>	-Karek-Saoz.	47° 50.1' N 4° 09.3' W	Fl.R. period 2.5s fl. 0.5s, ec. 2s	10 3	1	Red truncated tower; 33.	Radar reflector.
412 <i>D 0910</i>	-Le Blas.	47° 50.3' N 4° 10.1' W	Fl.(4)G. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	16 5	1	Green truncated column; 36.	
416 <i>D 0915</i>	-Pointe du Toulgoet.	47° 52.3' N 4° 06.8' W	Fl.R. period 2.5s fl. 0.5s, ec. 2s	7 2	1	Red mast; 12.	
BENODET:							
420 <i>D 0914.1</i>	-Pointe de Combrit, Odet River entrance, W. side.	47° 51.9' N 4° 06.7' W	Oc.(3+1)W.R. period 12s lt. 1s, ec. 1s lt. 1s, ec. 1s lt. 3s, ec. 1s lt. 3s, ec. 1s	62 19	W. 12 R. 9	White square tower, gray corners; 55.	R. 017°-325°, W.-017°. In line 000°30' with La Pyramide.
424 <i>D 0913.9</i>	-Pointe du Coq Range, front.	47° 52.3' N 4° 06.7' W	Dir.Oc.(2+1)G. period 12s lt. 4s, ec. 1s lt. 4s, ec. 1s lt. 1s, ec. 1s	36 11	17	White tower, green stripe; 44.	Intensified 1° on each side of range line.
428 <i>D 0914</i>	--La Pyramide, common rear, about 348 meters 345°30' from Pointe du Coq front.	47° 52.5' N 4° 06.9' W	Oc.(2+1)W. period 12s lt. 4s, ec. 1s lt. 4s, ec. 1s lt. 1s, ec. 1s	157 48	11	White truncated tower, green top; 128.	Visible 338°-016°. Synchronized with front.
432 <i>D 0923.4</i>	Rouge de Glenan Whistle Buoy.	47° 45.5' N 4° 03.9' W	V.Q.(9)W. period 10s			W. CARDINAL YBY, pillar, topmark.	Whistle. Radar reflector.
436 <i>D 0918</i>	Ile aux Moutons.	47° 46.5' N 4° 01.7' W	Oc.(2)W.R.G. period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	59 18	W. 15 R. 11 G. 11	White square tower; 55.	R. 292°-035°, W.-050°, G.-063°, W.-081°, R.-141°, W.-292°.
			Dir.Oc.(2)W. period 6s	56 17	24		Synchronized with main light. Intensified 278°30'-283°30'.
442 <i>D 0922.2</i>	-La Pie.	47° 43.8' N 3° 59.7' W	Fl.(2)W. period 6s	30 9	3	ISOLATED DANGER BRB, beacon, topmark.	
444 <i>D 0922</i>	Ile de Penfret.	47° 43.3' N 3° 57.2' W	Fl.R. period 5s fl. 0.2s, ec. 4.8s	118 36	21	White pyramidal tower, red top; 78.	
			Dir.Q.W.	112 34	11		Visible 295°-315°. Auxiliary light.
448 <i>D 0922.6</i>	Basse Perennes Whistle Buoy.	47° 41.1' N 4° 06.3' W	Q.(9)W. period 15s			W. CARDINAL YBY, pillar, topmark.	Whistle. Radar reflector.
452 <i>D 0922.4</i>	Jument de Glenan Whistle Buoy.	47° 38.8' N 4° 01.3' W	Q.(6)+L.Fl.W. period 15s			S. CARDINAL YB, pillar, topmark.	Whistle. Radar reflector.
456	Jaune de Glenan Whistle Buoy.	47° 42.6' N 3° 49.9' W	Q.(3)W. period 10s			E. CARDINAL BYB, pillar, topmark.	Whistle. Radar reflector.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-WEST COAST							
460 <i>D 0925</i>	Cap Coz, shelter mole, head.	47° 53.5' N 3° 58.1' W	Fl.(2)W.R.G. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	16 5	W. R. G. 5	7 5	Gray post, red lantern, on white hut; 10.
464 <i>D 0925.4</i>	--Jetty extension, E. side.	47° 53.6' N 3° 58.1' W	Fl.G. period 4s fl. 1s, ec. 3s	26 8		1	Green lantern on gray post, white hut; 23.
CONCARNEAU:							
468 <i>D 0936</i>	-Le Cochon.	47° 51.5' N 3° 55.5' W	Fl.(3)W.R.G. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	16 5	W. R. G. 6	9 6	Green tower; 35.
472 <i>D 0928</i>	-La Croix entrance Range, front.	47° 52.2' N 3° 55.1' W	Oc.(3)W. period 12s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	46 14		13	White and red tower; 40.
476 <i>D 0930</i>	--Beuzec, rear, 2.3 km. 028°30' from front.	47° 53.3' N 3° 54.0' W	Dir.Q.W.	285 87		23	Belfry; 105.
484 <i>D 0934</i>	-W. side of Lanriec Passage.	47° 52.3' N 3° 54.8' W	Oc.(2)W.R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	13 4	W. R.	9 6	Red tower; 16.
486 <i>D 0935</i>	-Yacht Harbor.	47° 52.3' N 3° 54.7' W	Fl.(3)R. period 12s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 6.5s	10 3		1	PORT (A) R, post, topmark; 7.
488 <i>D 0933</i>	-La Medee.	47° 52.1' N 3° 54.9' W	Fl.R. period 2.5s fl. 0.5s, ec. 2s	30 9		4	Red round tower; 52.
492 <i>D 0932</i>	Lanriec, E. of Concarneau entrance.	47° 52.1' N 3° 54.6' W	Q.G.	43 13		8	Green rectangular daymark, white gable; 25.
496 <i>D 0940</i>	Baie de Pouldohan.	47° 51.0' N 3° 53.7' W	Fl.G. period 4s fl. 1s, ec. 3s	20 6		8	Green and white square tower; 20.
498 <i>D 0942</i>	Dragon Rock.	47° 47.9' N 3° 53.3' W	V.Q.(9)W. period 10s			6	W. CARDINAL YBY, round tower, topmark; 36.
500 <i>D 0944</i>	Trevignon, on breakwater.	47° 47.6' N 3° 51.3' W	Oc.(3+1)W.R.G. period 12s lt. 3s, ec. 1s lt. 3s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s	35 11	W. R. G. 11	14 11 11	White square tower, green top; 25.
TREVIGNON:							
504 <i>D 0945</i>	-Shelter, mole, head.	47° 47.7' N 3° 51.3' W	Fl.G. period 4s fl. 1s, ec. 3s	16 5		8	White column, green top; 13.
508 <i>D 0946</i>	Port-Manech, (Pointe de Beg-ar-Vechen).	47° 48.0' N 3° 44.4' W	Oc.(4)W.R.G. period 12s lt. 5s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s	125 38	W. R. G. 7	10 7 7	White and red tower; 33.
512 <i>D 0950</i>	Brigneau.	47° 46.9' N 3° 40.2' W	Oc.(2)W.R.G. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	22 7	W. R. G. 9	12 9 9	White column, red top; 23.
516 <i>D 0952</i>	Merrien, port, entrance, W. side.	47° 47.1' N 3° 39.0' W	Q.R.	85 26		7	White square tower, red top; 25.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-WEST COAST							
520 <i>D 0954</i>	Doelan Range, front.	47° 46.3' N 3' 36.5' W	Oc.(3)W.G. period 12s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	65 20	W. 13 G. 10	White tower, green band and top; 49.	G. 305°-314°, W. elsewhere.
524 <i>D 0954.1</i>	-Rear, 326 meters 013°48' from front.	47° 46.5' N 3' 36.3' W	Q.R.	88 27	9	White tower, red band and top; 45.	
526 <i>D 0961</i>	Lomener.	47° 42.3' N 3' 25.5' W	Dir.Q.W.R.G.	43 13	W. 10 R. 8 G. 8	White tower, red top; 30.	G. 349°12'-355°12', W.-359°12', R.-005°12'.
528 <i>D 0960</i>	Kerroch.	47° 42.0' N 3' 27.7' W	Oc.(2)W.R.G. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	72 22	W. 11 R. 8 G. 8	Truncated white tower, red top; 26.	R. 096°30'-112°30', G.-132°, R.-302°, W.-096°30'.
ILE DE GROIX:							
532 <i>D 0962</i>	-Pen-Men.	47° 38.9' N 3' 30.5' W	Fl.(4)W. period 25s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 15.8s	197 60	29	White square tower, black top; 92.	Visible 309°-275°.
536 <i>D 0964</i>	-Port Trudy, E. mole, head.	47° 38.7' N 3' 26.8' W	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	36 11	7	White round tower, red top; 33.	Visible 112°-226°.
540 <i>D 0966</i>	--N. mole, head.	47° 38.7' N 3' 26.7' W	Iso.G. period 4s	39 12	7	White round tower, green top; 33.	
544 <i>D 0968</i>	-Pointe de la Croix, island, E. point.	47° 38.1' N 3' 25.0' W	Oc.W.R. period 4s lt. 3s, ec. 1s	52 16	W. 12 R. 9	Red lantern on white masonry base; 14.	W. 169°-336°, R.-345°, W.-353°, obscured elsewhere.
548 <i>D 0970</i>	-Pointe des Chats.	47° 37.3' N 3' 25.3' W	Fl.R. period 5s fl. 0.4s, ec. 4.6s	52 16	19	White square tower, dwelling; 50.	
552	<i>Les Chats Whistle Buoy.</i>	47° 35.7' N 3' 23.6' W	Q.(6)+L.Fl.W. period 15s			S. CARDINAL YB, pillar, topmark.	Whistle. Radar reflector.
LORIENT AND PORT LOUIS:							
556 <i>D 0974</i>	-Les Trois Pierres.	47° 41.5' N 3' 22.5' W	Q.R.G.	36 11	R. 6 G. 6	Black octagonal tower, white bands; 59.	G. 060°-196°, R.-002°, obscured elsewhere.
560 <i>D 0975</i>	-Ile aux Souris.	47° 42.2' N 3' 21.4' W	Dir.Q.W.G.	20 6	W. 3 G. 2	Green tripod.	W. 041°30'-043°30', G.-041°30'.
565 <i>D 0971</i>	-Les Soeurs Range, front.	47° 42.2' N 3' 21.7' W	Dir.Q.W.	36 11	13	Red tower, white bands.	Intensified 042°30'-058°30'.
565.1 <i>D 0971.1</i>	--Port-Louis , rear, 740 meters 057° from front.	47° 42.4' N 3' 21.3' W	Dir.Q.W.	72 22	18	Building, red and white bands.	
568 <i>D 0976</i>	-Port de Peche Range, front, NE. gable of fish market warehouse.	47° 43.8' N 3' 21.7' W	Dir.Q.R.	52 16	17	Gray pylon, white daymark with green and red bands; 49.	Intensified 006°-011°.
572 <i>D 0976.1</i>	--Kergroise-La Perriere , rear, 515 meters 008°30' from front.	47° 44.1' N 3' 21.6' W	Dir.Q.R.	111 34	16	Gray pylon, red and white striped rectangular daymark; 81.	Intensified 006°-011°. Synchronized with front.
576 <i>D 0978</i>	-Passe de la Citadelle Range, front, on Ile St. Michel.	47° 43.5' N 3' 21.6' W	Dir.Oc.(3)G. period 12s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	26 8	16	White tower, green top; 45.	Intensified 014°30'-017°30'.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-WEST COAST							
580 <i>D 0978.1</i>	--Rear, 306 meters 016°30' from front.	47° 43.6' N 3' 21.5' W	Dir.Oc.(3)G. period 12s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	46 14	16	White tower, green top; 62.	Intensified 014°30'-017°30'. Synchronized with front.
582 <i>D 0996.6</i>	-Ste. Catherine.	47° 43.6' N 3' 21.0' W	Q.G.	16 5	2		
584 <i>D 0985</i>	-Port Louis, jetty, NE. head.	47° 42.8' N 3' 21.3' W	Iso.G. period 4s	23 7	6	White truncated tower, green top; 22.	Visible 043°-301°.
588 <i>D 0984</i>	-Citadelle at Port Louis, channel, E. side.	47° 42.6' N 3' 21.9' W	Oc.G. period 4s lt. 3s, ec. 1s	20 6	6	Green tower; 35.	Visible 009°-193°.
592 <i>D 0982</i>	-La Petite Jument, channel, W. side.	47° 42.6' N 3' 21.9' W	Oc.R. period 4s lt. 3s, ec. 1s	16 5	6	Red tower; 40.	Visible 182°-024°.
596 <i>D 0986</i>	-Le Cochon, on rock, channel, W. side.	47° 42.8' N 3' 22.0' W	Fl.R. period 4s fl. 1s, ec. 3s	16 5	5	Red tower, green band; 33.	
598 <i>D 0996.3</i>	-Marina, E. breakwater, head.	47° 43.2' N 3' 21.9' W	Fl.Y. period 2.5s	13 4	2	Metal structure, yellow top; 46.	
600 <i>D 0990</i>	-Keroman Range, front.	47° 43.6' N 3' 22.0' W	Dir.Oc.(2)R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	82 25	15	Hut, red and white bands; 16.	Intensified 349°-351°.
604 <i>D 0990.1</i>	--Rear, about 92 meters 350° from front.	47° 43.7' N 3' 21.9' W	Dir.Oc.(2)R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	102 31	15	Gray metal pylon, red top, red and white banded daymark; 39.	Intensified 349°-351°. Synchronized with front.
608 <i>D 0994</i>	-Keroman, fishing port, S.E. mole, head.	47° 43.7' N 3' 21.8' W	Fl.R.G. period 4s fl. 1s, ec. 3s	23 7	6	White truncated tower, green top; 23.	G. 000°-235°, R.-360°. 2 Dir.Q.G. (occas.) in line 350° 260 meters W.
612 <i>D 0996</i>	-Kernevel Range, front.	47° 43.0' N 3' 22.4' W	Dir.Q.R.	33 10	15	Red and white pylon, red square daymark; 33.	Intensified 2° each side of range line.
616 <i>D 0996.1</i>	--Rear, about 290 meters 217° from front.	47° 42.9' N 3' 22.4' W	Dir.Q.R.	59 18	15	White and red square tower; 51.	Intensified 2° each side of range line. Synchronized with front.
618 <i>D 0997</i>	-Pengarne.	47° 43.9' N 3' 21.1' W	Fl.G. period 2.5s fl. 0.5s, ec. 2s	10 3	3	Green tower; 20.	
620 <i>D 0999</i>	-RoRo pier.	47° 44.5' N 3' 20.9' W	Oc.(2)R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	23 7	6	Red structure; 66.	
624 <i>D 0998</i>	-Pointe de l'Esperance.	47° 44.6' N 3' 20.6' W	Dir.Q.W.R.G.	26 8	W. 10 R. 8 G. 8	White tower, green top; 22.	G. 034°12'-036°42', W.-037°12', R.-047°12'.
628 <i>D 1002.4</i>	-Pont Goeydon, E. bridge pier.	47° 45.1' N 3' 21.0' W	Dir.Iso.W.R.G. period 4s	20 6	W. 11 R. 9 G. 9	White masonry support; 13.	G. 350°-351°30', W.-352°30', R.-355°30'.
632 <i>D 1012</i>	Etel, river entrance, W. side.	47° 38.7' N 3' 12.8' W	Oc.(2)W.R.G. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	43 13	W. 9 R. 6 G. 6	Red tower; 36.	W. 022°-064°, R.-123°, W.-330°, G.-022°.
636 <i>D 1014</i>	Plateau de Birvideaux.	47° 29.2' N 3' 17.4' W	Fl.(2)W. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	79 24	10	ISOLATED DANGER BRB, beacon; 118.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-WEST COAST							
BELLE ILE:							
640 D 1032	-Anse de Goulphar.	47° 18.7' N 3° 13.6' W	Fl.(2)W. period 10s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 7.4s	285 87	27	Gray tower, red lantern; 170.	
644 D 1030	-Pointe des Poulains.	47° 23.3' N 3° 15.1' W	Fl.W. period 5s fl. 0.4s, ec. 4.6s	111 34	23	White square tower and dwelling, red lantern; 60.	Obscured 291°-023°.
648 D 1044	-Sauzon.	47° 22.4' N 3° 13.1' W	Q.G.	30 9	5	White tower, green top; 30.	Visible 194°-045°.
652 D 1045	--NW. jetty, head.	47° 22.5' N 3° 13.0' W	Fl.G. period 4s fl. 1s, ec. 3s	26 8	8	White truncated tower, green top; 15.	Visible 190°-078°.
656 D 1046	--SE. jetty, head.	47° 22.5' N 3° 13.0' W	Fl.R. period 4s fl. 1s, ec. 3s	26 8	8	White truncated tower, red top; 15.	Visible 315°-272°.
660 D 1042	-Le Palais, N. jetty, head.	47° 20.9' N 3° 09.1' W	Fl.(2+1)G. period 12s fl. 1s, ec. 1s fl. 1s, ec. 4s fl. 1s, ec. 4s	26 8	7	White tower, green top; 33.	
664 D 1040	--S. jetty, head.	47° 20.8' N 3° 09.1' W	Oc.(2)R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	26 8	11	White tower, red lantern; 33.	
668 D 1036	-Pointe de Kerdonis.	47° 18.7' N 3° 03.5' W	Fl.(3)R. period 15s fl. 0.4s, ec. 2.6s fl. 0.4s, ec. 2.6s fl. 0.4s, ec. 8.6s	116 35	15	White square tower, dwelling, red top; 46.	
672 D 1016	S. side of Presqu'île de Quiberon.	47° 28.8' N 3° 07.5' W	Q.W.R.G.	92 28	W. 14 R. 10 G. 10	White tower, green lantern; 72.	R. 017°-051°, W.-081°, G.-098°, W.-143°, obsc.-246°, W.-252°, obsc.-291°, W.-297°, G.-340°, W.-017°.
676 D 1015	-Entrance Range, front.	47° 28.6' N 3° 07.2' W	Dir.Q.G.	16 5	13	White truncated tower, black band, black top; 42.	Intensified 005°-008°.
680 D 1015.1	--Rear, about 230 meters 006°30' from front.	47° 28.8' N 3° 07.5' W	Dir.Q.G.	42 13	17	White truncated tower, black band, black top; 36.	Intensified 005°-008°.
684 D 1017	-Breakwater, S. entrance.	47° 28.5' N 3° 07.3' W	Oc.(2)R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	30 9	7	White tower, red lantern; 16.	
688 D 1018	-E. mole, near N. entrance.	47° 28.6' N 3° 07.4' W	Iso.G. period 4s	30 9	7	White tower, green lantern; 23.	
PASSAGE DE LA TEIGNOUSE:							
692 D 1022	-La Teignouse.	47° 27.5' N 3° 02.8' W	Fl.W.R. period 4s fl. 1s, ec. 3s	66 20	W. 15 R. 11	White round tower and base, red top; 66.	W. 033°-039°, R.-033°.
720 D 1082	Ile Houat, St. Gildas, on N. mole.	47° 23.5' N 2° 57.4' W	Fl.(2)W.G. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	26 8	W. 9 G. 6	White tower, green top; 16.	W. 168°-198°, G.-210°, W.-240°, G.-168°.
724 D 1084	Ile de Hoedic, Port of l'Argol.	47° 20.7' N 2° 52.5' W	Fl.W.G. period 4s fl. 1s, ec. 3s	33 10	W. 9 G. 6	White support, green top; 23.	W. 143°-163°, G.-183°, W.-203°, G.-143°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-WEST COAST							
728 D 1086	Les Grands Cardinaux, on Groguegues Rock, SE. of Ile Hoedic.	47° 19.3' N 2° 50.1' W	Fl.(4)W. period 15s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	92 28	13	Red round tower, white band; 89.	
PORT HALIGUEN:							
732 D 1026.2	-New breakwater, head.	47° 29.4' N 3° 06.0' W	Oc.(2)W.R. period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	33 10	W. 11 R. 8	White truncated tower, red top; 26.	W. 233°-240°30', R.-299°, W.-306°, R.-233°.
736 D 1026	-Old breakwater, head.	47° 29.3' N 3° 06.0' W	Fl.R. period 4s fl. 1s, ec. 3s	33 10	5	White tower, red top; 23.	Visible 322°-206°.
740 D 1026.4	-Pier, entrance, NW. side.	47° 29.4' N 3° 06.1' W	Fl.G. period 2.5s fl. 0.5s, ec. 2s	30 9	6	White structure, green top; 30.	
744 D 1027	-Pier.	47° 29.3' N 3° 06.0' W	Fl.Vi. period 2.5s fl. 0.5s, ec. 2s	16 5		Purple pipe; 10.	
CRACH:							
752 D 1050	-Entrance Range, front.	47° 34.1' N 3° 00.4' W	Q.W.R.G.	36 11	W. 10 R. 7 G. 7	White truncated tower, green top; 19.	G. 321°-345°, W.-013°30', R.-080°, obsc.-321°.
756 D 1050.1	--Kernavest, rear, about 560 meters 347° from front.	47° 34.5' N 3° 00.3' W	Q.W.	69 21	15	White round tower, green top; 49.	Intensified 337°-357°. Synchronized with front.
760 D 1051	-812 meters 105° from La Trinite-sur-Mer.	47° 35.1' N 3° 01.0' W	Dir.Oc.W.R.G. period 4s lt. 3s, ec. 1s	30 9	W. 13 R. 11 G. 11	White tower; 20.	G. 345°-346°, W.-348°, R.-349°.
764 D 1052	La Trinite-sur-Mer, wharf, head.	47° 35.1' N 3° 01.5' W	Oc.(2)W.R. period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	20 6	W. 9 R. 6	White tower, red top; 19.	R. 090°-293°30', W.-300°30', R.-329°, obsc.-090°. Iso.R. 4s light shown from head of wharf 274 meters N.
768 D 1054	Port Navalo.	47° 32.9' N 2° 55.1' W	Oc.(3)W.R.G. period 12s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	104 32	W. 15 R. 11 G. 11	White round tower; 62.	W. 359°-015°, R.-105°, obsc.-155°, W.-220°, obsc.-317°, G.-359°.
769 D 1054.5	-Riviere D'Auray, Grogan.	47° 33.9' N 2° 55.1' W	Q.(6)+L.Fl.W. period 15s	10 3	7	S. CARDINAL YB, tower, topmark.	
772	Plateau de la Recherche.	47° 25.6' N 2° 50.4' W	Q.(9)W. period 15s			W. CARDINAL YBY, pillar, topmark.	
776 D 1056	Saint Jacques en Sarzeau, mole, head.	47° 29.2' N 2° 47.5' W	Oc.(2)R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	23 7	6	White octagonal tower, red top; 16.	
780 D 1062	Le Pignon, Riviere de Penerf, entrance.	47° 30.1' N 2° 38.9' W	Fl.(3)W.R. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	20 6	W. 9 R. 6	Red tower; 46.	R. 028°30'-167°, W.-175°, R.-349°30', W.-028°30'.
784 D 1060	Ile Dumet.	47° 24.7' N 2° 37.2' W	Fl.(3)W.R.G. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	46 14	W. 7 R. 4 G. 4	White column, green top, on fort; 20.	W. 335°-090°, G.-272°, W.-285°, R.-335°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-WEST COAST							
VILAINE:							
788 D 1063	-Basse Bertrand.	47° 31.1' N 2° 30.7' W	Iso.W.G. period 4s	20 6	W. 9 G. 6	Green tower; 46.	W. 040°-054°, G.-227°, W.-234°, G.-040°.
792 D 1064	-Pointe de Penlan.	47° 31.0' N 2° 30.2' W	Oc.(2)W.R.G. period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	85 26	W. 15 R. 11 G. 11	White and red banded tower; 59.	G. 025°-052°, W.-060°, R.-138°, G.-180°, obsc.-292°30', R.-025°.
794 D 1062.5	-Basse de Kenoyal Beacon.	47° 30.4' N 2° 32.6' W	Dir.Q.W.R.	23 7	W. 8 R. 5	S. CARDINAL YB, tower, topmark; 39.	W. 269°-271°, R.-269°.
800 D 1066	-Pointe du Scal, S. side of river mouth, front.	47° 29.7' N 2° 26.8' W	Q.G.	25 8		4 Square green and white tower; 10.	
808 D 1072	Mesquer, jetty, head.	47° 25.3' N 2° 28.1' W	Oc.W.R.G. period 4s lt. 3s, ec. 1s	23 7	W. 10 R. 7 G. 7	White column, green top; 23.	W. 067°-072°, R.-102°, W.-118°, G.-067°.
812 D 1074	Piriac-sur-Mer, jetty, head.	47° 22.9' N 2° 32.7' W	Oc.(2)W.R.G. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	26 8	W. 10 R. 7 G. 7	White column; 26.	R. 066°-148°, G.-194°, W.-201°, R.-221°. Siren: (0.2 mile SW.) 1 bl. ev. 120s. Occas. (bl. 5s, si. 115s).
PLATEAU DU FOUR:							
820 D 1080	-Le Four.	47° 17.9' N 2° 38.1' W	Fl.W. period 5s fl. 1s, ec. 4s	75 23	18	White round tower, black bands, green top; 89.	
824	-Bonen du Four Whistle Buoy.	47° 18.5' N 2° 39.3' W	Q.W.			N. CARDINAL BY, pillar.	Whistle. Radar reflector.
828	-Basse Capella Whistle Buoy.	47° 15.7' N 2° 44.8' W	Q.(9)W. period 15s			W. CARDINAL YBY, pillar, topmark.	Whistle. Radar reflector.
832	-Banc de Guerande Whistle Buoy.	47° 08.8' N 2° 42.8' W	V.Q.(6)+L.Fl.W. period 10s			S. CARDINAL YB, pillar, topmark.	Whistle. Radar reflector.
840	-Gouve-Vas du Four Shoal Buoy, S. of shoal.	47° 14.9' N 2° 38.2' W	Q.(6)+L.Fl.W. period 15s			S. CARDINAL YB, pillar, topmark.	Radar reflector.
LA TURBALLE:							
844 D 1076	-Jetee Ouest (Garlahy), head.	47° 20.7' N 2° 31.0' W	Fl.(4)W.R. period 12s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	43 13	W. 10 R. 7	White pylon red top; 36.	W. 315°-060°, R.-315°.
848 D 1075.8	-Entrance Range, front.	47° 20.8' N 2° 30.9' W	Dir.Iso.R. period 4s	36 11	3	Metal mast, orange top; 16.	Intensified 004°-009°.
852 D 1075.81	--Rear, 200 meters 006°30' from front.	47° 21.0' N 2° 30.8' W	Dir.Iso.R. period 4s	62 19	3	Metal structure, orange top; 39.	Intensified 004°-009°.
856 D 1078	-Digue Sud (Tourlandroux).	47° 20.8' N 2° 30.9' W	Fl.G. period 4s fl. 1s, ec. 3s	13 4	2	White tank, green top; 16.	(bl. 1 min.). Siren: (about 275 meters NE.) 1 bl. ev. 10 min.
LE CROISIC:							
860 D 1088	-Head of Trehic Jetty, entrance to port, W. side.	47° 18.5' N 2° 31.4' W	Iso.W.G. period 4s	39 12	W. 14 G. 11	Gray granite tower, green top; 39.	G. 042°-093°, W.-137°, G.-345°, obsc.-042°.
862 D 1091	-Basso Hergo.	47° 18.7' N 2° 31.6' W	Fl.G. period 2.5s fl. 0.5s, ec. 2s	16 5	3	STARBOARD (A) G, tower beacon, topmark; 39.	Radar reflector.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-WEST COAST							
864 D 1094	-Grand Mabon.	47° 18.0' N 2° 31.0' W	Fl.(3)R. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	20 6	2	Red tank and base; 26.	
868 D 1090	-Near beach Range, front.	47° 18.0' N 2° 31.0' W	Dir.Q.W.	33 10	19	White framework tower, orange daymark; 39.	Intensified 154°-158°.
872 D 1090.1	--Rear, 116 meters 156° from front.	47° 17.9' N 2° 30.9' W	Dir.Q.W.	46 14	19	Framework tower, green and white bands, orange daymark; 49.	Intensified 154°-158°. Synchronized with front. Two Q.G. lights in range 174° shown inside entrance.
876 D 1093	-Range, front.	47° 17.9' N 2° 30.8' W	Dir.Q.R.	20 6	8	Red and white checkered pylon, red rectangular daymark; 20.	Intensified 125°30'-143°30'.
880 D 1093.1	--Rear, 52 meters 134°30' from front.	47° 17.9' N 2° 30.8' W	Dir.Q.R.	33 10	8	Red and white checkered pylon, red rectangular daymark; 33.	Intensified 125°30'-143°30'. Synchronized with front.
ESTUAIRE DE LA LOIRE:							
884 D 1098	-Le Pouliguen, jetty, head.	47° 16.4' N 2° 25.4' W	Q.R.	43 13	9	White column, red top; 49.	Visible 171°-081°.
888 D 1100	--Petit Impairs Tower.	47° 16.0' N 2° 24.6' W	Fl.(2)G. period 6s fl. 0.2s, ec. 1.4s fl. 0.2s, ec. 4.2s	20 6	2	Green tower; 26.	
892 D 1102	-Pornichet, S. breakwater.	47° 15.5' N 2° 21.1' W	Iso.W.R.G. period 4s	36 11	W. 10 R. 7 G. 7	White tower, green top; 33.	G. 303°-081°, W.-084°, R.-180°, obsc.-303°.
896 D 1096	-La Branche.	47° 10.6' N 2° 28.1' W	Fl.(2)W.R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	72 22	W. 15 R. 11	Black tower, white bands; 98.	R. 266°-280°, W.-266°.
912 D 1150	-Pointe de St. Gildas.	47° 08.0' N 2° 14.8' W	Q.W.R.G.	66 20	W. 14 R. 10 G. 10	Column on white house, green top; 56.	R. 264°-308°, G.-078°, W.-088°, R.-174°, W.-180°, G.-264°.
916 D 1105.5	-Port de la Gravette, breakwater head.	47° 09.6' N 2° 12.7' W	Fl.(3)W.G. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	23 7	W. 8 G. 5	White tower, green top; 20.	G. shore-124°, W.-138°, G.-183°, W.-188°, G.-shore.
920 D 1105	-S. Michel-Chef-ChefPort de Comberge, Jetee Sud, head.	47° 10.7' N 2° 09.9' W	Oc.W.G. period 4s lt. 3s, ec. 1s	23 7	W. 9 G. 6	White tower, green top; 16.	W. 123°-140°, G. elsewhere.
924 D 1152	-Ile du Pilier.	47° 02.6' N 2° 21.5' W	Fl.(3)W. period 20s fl. 0.1s, ec. 3.9s fl. 0.1s, ec. 3.9s fl. 0.1s, ec. 11.9s	108 33	29	Square gray tower; 112.	
	-Auxiliary light.		Q.R.	33 10	11		Visible 321°-034°.
928 D 1095	-Buoy "S.N.1."	47° 00.0' N 2° 40.0' W	L.FI.W. period 10s			SAFE WATER RW, pillar, topmark.	Whistle.
	-RACON		Z(--••)				
944 D 1104	-Le Grande Charpentier, Chenal du Nord, N. side.	47° 12.8' N 2° 19.1' W	Q.W.R.G.	72 22	W. 14 R. 10 G. 10	Gray tower with green lantern; 89.	G. 020°-049°, W.-111°, R.-310°, W.-020°.
946	-La Couronne Lightbuoy.	47° 07.6' N 2° 20.1' W	Q.G.			STARBOARD (A) G, pillar, topmark	Radar reflector.
	-RACON		(••••••)		3		
948 D 1106	-Portce Range, front.	47° 14.6' N 2° 15.4' W	Dir.Q.W.	20 6	22	White column; 75.	Intensified 024°42'-026°12'.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-WEST COAST							
952 D 1106.1	--Rear, 1,350 meters from front.	47° 15.3' N 2° 14.9' W	Dir.Q.W.	118 36	24	White metal tower, white rectangular daymark; 62.	Intensified 024°-027°. Synchronized with front.
956 D 1114	-Pointe d'Aiguillon.	47° 14.6' N 2° 15.8' W	Oc.(4)W.R. period 12s lt. 5s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s	92 28	W. 13 R. 10	White tower; 62.	W. (unintensified) 207°-233°, W.-293°, obsc.-297°, W.-300°, R.-327°, W.-023°, obsc.-027°, W.-089°.
960 D 1104.4	-Le Pointeau, Digue Sud, head.	47° 14.0' N 2° 10.9' W	Fl.W.G. period 4s fl. 1s, ec. 3s	13 4	W. 10 G. 7	White round tower, green top; 13.	G. 050°-074°, W.-149°, G.-030°, W.-050°.
962 D 1104.2	-Pointe de Mindin.	47° 16.2' N 2° 10.2' W	Fl.G. period 2.5s	20 6	3	White pylon.	
964 D 1116	--Villes-Martin, jetty, head.	47° 15.3' N 2° 13.7' W	Fl.(2)W. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	33 10	10	White tower, red top; 39.	
968 D 1118	-Les Morees, Banc des Morees, NE. point.	47° 15.1' N 2° 12.9' W	Fl.(3)W.R. period 12s	39 12	W. 6 R. 4	Green tower; 56.	W. 058°-224°, obsc.-300°, R.-058°.
-Saint-Nazaire:							
972 D 1122	--W. jetty, head.	47° 16.0' N 2° 12.2' W	Oc.(4)R. period 12s lt. 5s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s	36 11	8	White round tower, red top; 33.	
976 D 1124	---E. jetty.	47° 16.0' N 2° 12.1' W	Oc.(4)G. period 12s lt. 5s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s	36 11	11	White round tower, green top; 33.	Fl.R. and Fl.G. lights mark lock entrance 500m N. and channels between basins.
980 D 1126	--Old mole, head.	47° 16.3' N 2° 11.7' W	Oc.(2+1)W. period 12s lt. 4s, ec. 1s lt. 4s, ec. 1s lt. 1s, ec. 1s	59 18	11	White round turret, red top; 56.	Visible 153°30'-063°30'. Weather and traffic signals.
982 D 1127	--Old ferry dock.	47° 16.5' N 2° 11.8' W	Q.Y.	16 5	1	Yellow post; 30.	
984 D 1128	--Old dock entrance.	47° 16.5' N 2° 11.8' W	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	30 9	9	Red pylon; 23.	
986 D 1129	--Shipyard slipway.	47° 17.0' N 2° 10.9' W	Fl.Bu. period 2.5s fl. 0.5s, ec. 2s	16 5	1	White pylon; 10.	
988 D 1130	--Bridge.	47° 17.2' N 2° 10.2' W	Iso.W. period 4s	180 55		On bridge.	On upstream and downstream side marking center of channel.
992 D 1130.4	--Gron.	47° 17.7' N 2° 09.6' W	Iso.R. period 4s	36 11	2	Red and white tower; 19.	
996 D 1131	--Le Village, No. "1".	47° 18.1' N 2° 08.8' W	Q.R.	23 7	8	Red and white tower; 13.	Visible 225°-135°.
1008 D 1137	-Arceau Oil Jetty.	47° 18.4' N 2° 05.4' W	Oc.R. period 4s lt. 3s, ec. 1s	33 10	9	White pylon, red top; 26.	
1015 D 1138	--SW. dolphin.	47° 18.1' N 2° 05.0' W	Fl.G. period 2.5s fl. 0.5s, ec. 2s	39 12	3	Gray column and hut, green top; 36.	
-Donges:							
1016 D 1139	--NE. Dolphin.	47° 18.1' N 2° 04.8' W	Iso.G. period 4s	39 12	4	Green column and hut; 36.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-WEST COAST							
1024 D 1140	--Jetty, head.	47° 18.3' N 2° 04.2' W	Fl.(2)R. period 6s	29 9	9	Red tower; 26.	Visible 225°-135°.
1028 D 1142	-Paimboeuf, mole, head.	47° 17.4' N 2° 02.0' W	Oc.(3)W.G. period 12s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	29 9	W. 10 G. 7	Green and white tower; 29.	G. shore-123°, W.-shore.
BAIE DE BOURGNEUF:							
1032 D 1156	-Pornic, entrance, W. side.	47° 06.6' N 2° 06.9' W	Oc.(4)W.R.G. period 12s lt. 1s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s lt. 5s, ec. 1s	75 23	W. 13 R. 9 G. 9	White square tower, green top, white dwelling; 49.	G. shore-051°, W.-079°, R.- shore.
1036 D 1156.7	-Port de Peche, N.	47° 06.9' N 2° 06.2' W	Q.R.	6 2	7	White post; 3.	
1040 D 1156.72	--South.	47° 06.9' N 2° 06.2' W	Q.G.	6 2	7	White post; 3.	
1044 D 1155.2	--Yacht basin, SW. jetty, head.	47° 06.4' N 2° 06.7' W	Fl.(2)R. period 6s fl. 0.2s, ec. 1.4s fl. 0.2s, ec. 4.2s	13 4	2	Black post, red top; 29.	
1048 D 1155	--SW. jetty, elbow.	47° 06.5' N 2° 07.0' W	Fl.W. period 2.5s fl. 0.5s, ec. 2s	13 4	3	Gray post; 3.	
1052 D 1155.4	---E. jetty, head.	47° 06.5' N 2° 06.7' W	Fl.(2)G. period 6s fl. 0.2s, ec. 1.4s fl. 0.2s, ec. 4.2s	13 4	2	Black post, green top; 29.	
1056 D 1156.6	-Jetee de Gourmalon.	47° 06.6' N 2° 06.5' W	Fl.(3)G. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	13 4	7	White post, green top; 16.	
1060 D 1156.8	-La Bernerie-en-Retz, jetty, head.	47° 04.6' N 2° 02.4' W	Fl.R. period 2s fl. 0.4s, ec. 1.6s	13 4	5	White post, red top; 7.	
1064 D 1157	-Le Collet.	47° 01.8' N 1° 59.0' W	Oc.(2)W.R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	23 7	W. 7 R. 5	White hut, red top; 20.	W. shore-093°, R.-shore. About 900 meters SW., 2 Q.G. lights form range 118°.
1068 D 1160	-Etier des Brochets.	46° 59.9' N 2° 01.9' W	Oc.(3)W.R.G. period 12s lt. 4s, ec. 1s lt. 4s, ec. 1s lt. 1s, ec. 1s	26 8	W. 10 R. 7 G. 7	Green tower, white band; 23.	G. 071°-091°, W.-102°30', R.- 116°30', W.-119°30', R.- 164°30', obsc.-071°.
1072 D 1161	-Bec de l'Epoids, bay, SE. shore.	46° 56.4' N 2° 04.5' W	Dir.Iso.W.R.G. period 4s	20 6	W. 10 R. 7 G. 7	White square tower, red top; 23.	G. 106°-113°30', R.-122°, G.- 157°30', W.-158°30', R.- 171°30', W.-176°, obsc.- 106°.
ILE DE NOIRMOUTIER:							
1080 D 1162	-Pointe des Dames.	47° 00.7' N 2° 13.3' W	Oc.(3)W.R.G. period 12s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	112 34	W. 19 R. 15 G. 15	White square tower; 62.	R. 057°-124°, G.-165°, W.-191°, R.-267°, W.-357°, R.- 016°30', G.-057°.
1084 D 1164	-Heaux Jetty, head.	46° 59.3' N 2° 13.1' W	Oc.(2)R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	19 6	6	White column, red top; 23.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-WEST COAST							
1088 <i>D 1154</i>	-Pierre Moine Tower.	47° 03.4' N 2° 12.4' W	Fl.(2)W. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	46 14	7	ISOLATED DANGER BRB, topmark; 59.	
1092 <i>D 1153</i>	-Basse du Martroger.	47° 02.6' N 2° 17.1' W	Q.W.R.G.	36 11	W. 9 R. 6 G. 6	Yellow tower, black top, double cone topmark, points up; 53.	G. 033°-055°, W.-060°, R.-095°, G.-124°, W.-153°, R.-201°, W.-240°, R.-033°.
1096 <i>D 1166</i>	-L'Herbaudiere, jetty, head.	47° 01.6' N 2° 17.9' W	Oc.(2+1)W.G. period 12s lt. 4s, ec. 1s lt. 4s, ec. 1s lt. 1s, ec. 1s	29 9	W. 10 G. 7	White column, green top; 23	W. 187°30'-190°, G.-187°30'. 2 Q.W. 7M in line 187°30' mark entrance to harbor. Horn: 1 bl. ev. 30s.
1100 <i>D 1167</i>	--E. jetty, head.	47° 01.6' N 2° 17.9' W	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	26 8	4	Red tripod mast; 20.	
1102 <i>D 1165</i>	--Entrance Range, front.	47° 01.6' N 2° 17.8' W	Q.W.	16 5	7	Gray post, red top; 13.	Visible 098°-278°.
1102.1 <i>D 1165.1</i>	---Rear, 187°30' from front.	47° 01.4' N 2° 17.9' W	Q.W.	69 21	7	Gray post; 49.	Visible 098°-278°.
1104 <i>D 1168</i>	-Pointe du Devin.	46° 59.1' N 2° 17.6' W	Oc.(4)W.R.G. period 12s lt. 5s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s	33 10	W. 11 R. 8 G. 8	White hut and column, top green; 23.	G. 314°-028°, W.-035°, R.-134°, obsc.-314°.
GOULET DE FROMENTINE:							
1108	-Approach Bell Buoy.	46° 53.1' N 2° 11.4' W	L.Fl.W. period 10s fl. 3s, ec. 7s			SAFE WATER RW, spherical, topmark.	Radar reflector.
1112 <i>D 1170</i>	-Middle Tower.	46° 53.6' N 2° 09.6' W	Fl.(4)R. period 15s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	20 6	5	Red truncated tower; 39.	
1116 <i>D 1174</i>	-Bridge, W. head.	46° 53.5' N 2° 09.0' W	Iso.W. period 4s	105 32	18		On upstream and downstream sides marking the center of the channel.
1120 <i>D 1172</i>	-Pointe Notre Dame-de Monts.	46° 53.3' N 2° 08.5' W	Dir.Oc.(2)W.R.G. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	69 21	W. 13 R. 10 G. 10	White tower, black top; 33.	G. 000°-043°, W.-063°, R.-073°, W.-094°, G.-113°, W.-116°, R.-175°, G.-196°, R.-230°, obsc.-000°.
1124 <i>D 1189</i>	Saint-Jean-de-Monts, on jetty.	46° 47.1' N 2° 05.1' W	Fl.(2)R. period 6s fl. 0.2s, ec. 1.4s fl. 0.2s, ec. 4.2s	33 10	1	White post, red top; 29.	
ILE D'YEU:							
1128 <i>D 1176</i>	-Main.	46° 43.1' N 2° 22.9' W	Fl.W. period 5s fl. 0.1s, ec. 4.9s	184 56	24	White square tower, green lantern; 125.	
1132 <i>D 1178</i>	-Les Chiens Perrins, about 800 meters off NW. extremity of island.	46° 43.6' N 2° 24.6' W	Q.(9)W.G. period 15s	52 16	W. 7 G. 4	W. CARDINAL YBY, tower, topmark; 62.	G. 330°-350°, W.-200°, obsc.- 330°.
1136 <i>D 1180</i>	-Joinville (Port-Breton), NW. jetty, head.	46° 43.8' N 2° 20.7' W	Oc.(3)W.G. period 12s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	20 6	W. 11 G. 8	White octagonal turret, green top; 16.	G. shore-150°, W.-232°, G.- 279°, W.-285°, G.-shore. Horn: 3 bl. ev. 30s (bl. 3s, si. 3s, bl. 3s, si. 3s, bl. 3s, si. 15s).
1140 <i>D 1183</i>	-Quai du Canada Range, front.	46° 43.7' N 2° 20.9' W	Q.R.	36 11	5	Pylon; 30.	Visible 169°-269°.

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FRANCE-WEST COAST							
1140.1 <i>D 1183.1</i>	--Rear, about 85 meters 219° from front.	46° 43.6' N 2° 20.9' W	Q.R.	52 16	5	Mast; 49.	Visible 169°-269°.
1144 <i>D 1184</i>	-Quai du Canada, head.	46° 43.6' N 2° 20.8' W	Iso.G. period 4s	23 7	6	Truncated white tower, green top; 16.	Unintensified 337°-067°.
1148 <i>D 1186</i>	-Pointe des Corbeaux.	46° 41.4' N 2° 17.1' W	Fl.(2+1)R. period 15s fl. 0.4s, ec. 2s fl. 0.4s, ec. 5.9s fl. 0.4s, ec. 5.9s	82 25	20	White square tower, red top; 62.	
1152 <i>D 1188</i>	-La Meule, entrance, W. side.	46° 41.5' N 2° 20.6' W	Oc.W.R.G. period 4s lt. 3s, ec. 1s	30 9	W. 9 R. 6 G. 6	Red post on gray tower; 20.	G. 007°30'-018°, W.-027°30', R.-041°30'.
SAINT-GILLES-SUR-VIE:							
1160 <i>D 1190</i>	-Croix de Vie Quay Range, front.	46° 41.9' N 1° 56.7' W	Dir.Oc.(3+1)R. period 12s lt. 3s, ec. 1s lt. 3s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s	23 7	13	White square tower, red top; 23.	Intensified 033°30'-053°30'.
1164 <i>D 1190.1</i>	--Rear, 260 meters 043°30' from front.	46° 42.0' N 1° 56.6' W	Dir.Oc.(3+1)R. period 12s lt. 3s, ec. 1s lt. 3s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s	92 28	12	White square tower, red top; 79.	Intensified 033°30'-053°30'. Synchronized with front.
1168 <i>D 1189.6</i>	-Pointe de Grosse Terre.	46° 41.6' N 1° 57.8' W	Fl.(4)W.R. period 12s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	82 25	W. 18 R. 13	White truncated tower; 56.	W. 290°-125°, R.-145°, obsc.-290°.
1172 <i>D 1193</i>	-Jetee de la Garenne.	46° 41.6' N 1° 57.1' W	Q.W.G.	26 8	W. 8 G. 6	White tower, green top; 26.	G. 045°-335°, W.-045°. Channel into port marked by lighted buoys. Horn: 1 bl. ev. 20s (bl. 3s, si. 17s).
1176 <i>D 1191</i>	-Jetee de Boisvinet.	46° 41.6' N 1° 57.2' W	Fl.(2)W.R. period 6s fl. 0.2s, ec. 1.4s fl. 0.2s, ec. 4.2s	26 8	W. 8 R. 5	Red column; 20.	R. 045°-225°, W.-045°.
LES SABLES-D'OLONNE:							
1180 <i>D 1196</i>	-L'Armandeche.	46° 29.4' N 1° 48.3' W	Fl.(2+1)W. period 15s fl. 0.1s, ec. 2.5s fl. 0.1s, ec. 6.1s fl. 0.1s, ec. 6.1s	138 42	24	White hexagonal tower, red top; 128.	Visible 295°-130°.
1184 <i>D 1198</i>	-Les Barges.	46° 29.7' N 1° 50.4' W	Fl.(2)R. period 10s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 7.4s	82 25	13	Gray tower, helicopter platform; 95.	Visible 265°-205°.
1196 <i>D 1207</i>	-L'Estacade Range, front.	46° 29.5' N 1° 46.3' W	Iso.W. period 4s	39 12	16	Metal post; 39.	
1200 <i>D 1207.1</i>	--Rear, 330 meters 033° from front.	46° 29.6' N 1° 46.1' W	Iso.W. period 4s	108 33	16	Square tower, white house; 66.	
1204 <i>D 1210</i>	-Entrance Range, front.	46° 29.7' N 1° 47.7' W	F.R.	20 6	11	White hut, red rectangular daymark; 20.	
1208 <i>D 1210.1</i>	--Rear, 65 meters 327° from front.	46° 29.8' N 1° 47.7' W	Dir.F.R.	30 9	11	White tower, red rectangular daymark; 29.	Intensified 323°30'-330°30'.
1212 <i>D 1200</i>	-Jetee St. Nicolas, head.	46° 29.2' N 1° 47.5' W	U.Q.(2)R.	52 16	10	White tower, red top; 46.	Visible 143°-094°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-WEST COAST							
1216 <i>D 1204</i>	-Jettee des Sables, head.	46° 29.4' N 1° 47.5' W	Q.G.	36 11	8	White tower with green top; 30.	
1220 <i>D 1204.1</i>	-Tour de La Chaume, entrance, W. side.	46° 29.7' N 1° 47.7' W	Oc.(2+1)W. period 12s lt. 4s, ec. 1s lt. 4s, ec. 1s lt. 1s, ec. 1s	108 33	13	Gray square tower with battlements topped by small white column; 89.	On line 320° with Jettee des Sables Light.
1222 <i>D 1211</i>	-Bourgenay Range, front.	46° 26.4' N 1° 40.5' W	Q.G.	30 9	8	White tower, green rectangular daymark, white base.	Visible 020°-060°.
1222.1 <i>D 1211.1</i>	--Rear, 162 meters 040° from front.	46° 26.5' N 1° 40.4' W	Q.G.	62 19	8	White tower, green rectangular daymark, white border.	Visible 010°-070°.
PLATEAU DU ROCHEBONNE:							
1224 <i>D 1213</i>	-NW. Whistle Buoy.	46° 12.9' N 2° 31.9' W	Q.(9)W. period 15s			W. CARDINAL YBY, pillar.	Whistle. Radar reflector.
1228 <i>D 1213.6</i>	-NE. Buoy.	46° 12.7' N 2° 25.0' W	Iso.G. period 4s			STARBOARD (A) G, pillar.	Radar reflector.
1232 <i>D 1213.2</i>	-SW. Buoy.	46° 10.1' N 2° 27.0' W	Fl.(2)R. period 6s fl. 1s, ec. 3s			PORT (A) R, pillar.	Radar reflector.
1236 <i>D 1213.4</i>	-SE. Bell Buoy.	46° 09.2' N 2° 21.2' W	Q.(3)W. period 10s			E. CARDINAL BYB, pillar.	Bell. Radar reflector.
PERTUIS DU BRETON:							
1240 <i>D 1214</i>	-Pointe Grouin du Cou, N. side of entrance.	46° 20.7' N 1° 27.8' W	Fl.W.R.G. period 5s fl. 0.4s, ec. 4.6s	94 29	W. 20 R. 16 G. 16	White octagonal sided tower, black lantern; 52.	R. 034°-061°, W.-117°, G.-138°, W.-034°.
1244 <i>D 1215</i>	-La Tranche-sur-Mer, Estacade, estremity.	46° 20.6' N 1° 25.5' W	Fl.(2)R. period 6s	20 6	7	Red support; 13.	
1248	-Anse de l' Aiguillon Approach Buoy.	46° 15.8' N 1° 11.3' W	L.Fl.W. period 10s fl. 3s, ec. 7s			SAFE WATER RW, pillar, topmark.	Radar reflector.
1256 <i>D 1242</i>	-Port du Plomb, W. mole, head.	46° 12.4' N 1° 12.1' W	Fl.R. period 4s fl. 1s, ec. 3s	30 9	7	White column, red top; 39.	
1260 <i>D 1216</i>	-Haut Banc du Nord.	46° 15.8' N 1° 35.2' W	Oc.(2)W. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	75 23	11	Pink tower, red top; 105.	
ILE DE RE:							
1268 <i>D 1218</i>	-Les Baleines.	46° 14.6' N 1° 33.7' W	Fl.(4)W. period 15s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 7.4s	174 53	27	Gray octagonal tower, red lantern; 187.	3 F.R. lights shown on semaphore tower 0.1 miles SW.
1272 <i>D 1220</i>	-Fier d'Ars Range, front.	46° 14.0' N 1° 28.8' W	Iso.W. period 4s	16 5	11	White masonry hut, square daymark; 23.	Visible 141°-025°.
1276 <i>D 1220.1</i>	--Rear, about 370 meters 265° from front.	46° 14.1' N 1° 28.8' W	Dir.Iso.G. period 4s	43 13	15	Square green tower on dwelling; 39.	Intensified 264°-266°. Synchronized with front.
1280 <i>D 1223</i>	-Ars-en-Re Range, front.	46° 12.8' N 1° 30.5' W	Q.W.	16 5	9	White hut, red lantern; 20.	
1284 <i>D 1223.1</i>	--Rear, 370 meters 232° from front.	46° 12.7' N 1° 30.7' W	Q.W.	42 13	11	White tower with green top, black rectangular daymark; 46.	Visible 142°-322°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-WEST COAST							
1292 D 1226	-St. Martin, 100 meters SE. of entrance to port.	46° 12.5' N 1° 21.9' W	Oc.(2)W.R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	59 18	W. 10 R. 7	White tower, red top; 43.	W. shore-245°, R.-281°, W.-shore.
1296 D 1228	--Mole, head.	46° 12.6' N 1° 21.9' W	Iso.G. period 4s	33 10	6	White tripod, green top; 23.	
1300 D 1230	-La Flotte, mole, head.	46° 11.4' N 1° 19.2' W	Fl.W.G. period 4s fl. 1s, ec. 3s	33 10	W. 12 G. 9	White turret, green top; 33.	G. 130°-205°, W.-220°, G.-257°. Horn: 3 bl. ev. 30s (bl. 3s, si. 3s, bl. 3s, si. 3s, bl. 3s, si. 15s). Sounded by day for 2 hours before to 2 hours after high water.
1304 D 1232	-Rivedoux-Plage Range, front, jetty, head.	46° 09.8' N 1° 16.6' W	Q.G.	20 6	6	White tower, green top; 16.	
1308 D 1232.1	--Rear, 100 meters 194°30' from front.	46° 09.8' N 1° 16.6' W	Q.G.	30 9	6	Two white posts, green top, green and white checkered daymark; 26.	Synchronized with front.
1312 D 1234	-Pointe de Sablanceaux, pier, head.	46° 09.8' N 1° 15.1' W	V.Q.(3)W. period 5s	33 10	5	E. CARDINAL BYB, post; 23.	
PERTUIS D'ANTIOCHE:							
1316 D 1240	-Pointe de Chanchardon, Ile de Re, reef, S. side.	46° 09.8' N 1° 28.3' W	Fl.W.R. period 4s fl. 1s, ec. 3s	49 15	W. 11 R. 8	Black octagonal tower, white base; 66.	R. 110°-290°, W.-110°.
1324 D 1238	-Pointe de Chauveau.	46° 08.0' N 1° 16.4' W	Oc.(3)W.R. period 12s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	89 27	W. 15 R. 11	White tower, red top; 102.	W. 057°-094°, R.-104°, W.-342°, R.-057°.
-La Pallice:							
1328 D 1244	--Mole d'Escale, (Maritime Station).	46° 09.8' N 1° 14.3' W	Dir.Q.W.R.G.	108 33	W. 14 R. 13 G. 13	Gray tower; 118.	G. 009°-014°42', W.-017°18', R.-031°. Signal mast.
1332 D 1244.6	---NW. angle.	46° 09.9' N 1° 14.4' W	Fl.G. period 4s fl. 1s, ec. 3s	16 5	6	Green round post; 3.	
1336 D 1244.4	---SE. angle, on caisson.	46° 09.6' N 1° 14.3' W	Oc.(2)R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	23 7	6	White pylon, red top; 13.	Iso.G. 4s at head of jetty 0.35 mile E.
1340 D 1244.7	-Oil pier, extremity.	46° 09.4' N 1° 14.4' W	Q.(6)+L.Fl.W. period 15s	20 6	9	S. CARDINAL YB, tower; 10.	
1344 D 1245	-N. jetty, head.	46° 09.5' N 1° 13.8' W	Oc.(2)R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	33 10	7	White turret, red top; 36.	R. 234°-144°, R. (unintensified) - 184, obsec.-234°.
1344.5 D 1246	--S. jetty, head.	46° 09.5' N 1° 13.5' W	Iso.G. period 4s	19 6	7	White beacon, green top; 13.	
1345 D 1247	-Basin Range, front.	46° 09.5' N 1° 12.6' W	Q.R.	69 21	7	Red mast; 62.	
1345.1 D 1247.1	--Rear, 154 meters 085° from front.	46° 09.5' N 1° 12.5' W	Q.R.	89 27	7	Red rectangle, white stripe on white mast, red top; 95.	Synchronized with front.
1348 D 1244.8	-W. jetty, head.	46° 09.3' N 1° 13.9' W	Fl.(3)G. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	42 13	9	White tower, green top; 36.	Horn: 3 bl. ev. 30s (bl. 2s, si. 3s, bl. 2s, si. 3s, bl. 2s, si. 18s).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-WEST COAST							
LA PALLICE:							
1351 <i>D 1247.5</i>	-Chef de Baie Fishing Harbor.	46° 08.9' N 1° 13.3' W	Dir.Oc.(3)W.R.G. period 12s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	33 10	W. 10 R. 7 G. 7	White round metal tower, red bands.	G. 096°-101°, W.-103°, R.-108°.
1351.5 <i>D 1248</i>	--W. jetty, head.	46° 08.9' N 1° 13.6' W	Fl.R. period 2.5s fl. 0.5s, ec. 2s	23 7	4	White tower, red top.	
1351.7 <i>D 1248.5</i>	--S. jetty, head.	46° 08.9' N 1° 13.6' W	Fl.G. period 2.5s fl. 0.5s, ec. 2s	23 7	4	White tower, green top.	
1352 <i>D 1243</i>	-Le Lavardin, on reef.	46° 08.1' N 1° 14.5' W	Fl.(2)W.G. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	46 14	W. 11 G. 8	ISOLATED DANGER BRB, tower; 69.	W. 169°-160°, G.-169°.
1360 <i>D 1249</i>	-Pointe des Minimes.	46° 08.3' N 1° 10.8' W	Fl.(3)W.G. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	26 8	W. 8 G. 5	Metal post on octagonal tower; 49.	W. 059°-213°, G. 313°-059°.
1364 <i>D 1251</i>	--Entrance Range, front.	46° 09.4' N 1° 09.1' W	Dir.Q.W.	49 15	14	White tower, red top, red and white bands; 46.	Visible 056°-062°. Fl.W. 4s shown by day.
1368 <i>D 1251.1</i>	---Rear, 235 meters 059° from front.	46° 09.5' N 1° 08.9' W	Q.W.	82 25	14	White octagonal tower, green top; 75.	Visible 044°-074°. Obscured 061°-065° Synchronized with front. Fl.W. 4s shown by day.
1380 <i>D 1250</i>	--Tourelle Richelieu.	46° 08.9' N 1° 10.0' W	Fl.(4)R. period 15s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	33 10	9	Red octagonal tower; 56.	Fl.G. 4s and Fl.(2)R. 6s at Digue Lazaret and Digue Chenal du port des Minimes. Siren: 4 bl. ev. 60s (bl. 2s, si. 3s, bl. 2s, si. 3s, bl. 2s, si. 3s, bl. 2s, si. 43s).
1381 <i>D 1254</i>	-Port of Minimes, W. jetty, head.	46° 08.9' N 1° 10.1' W	Fl.G. period 4s fl. 1s, ec. 3s	29 9	7	White tower, green top; 23.	
1382 <i>D 1254.2</i>	--E. jetty, head.	46° 08.9' N 1° 10.0' W	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	19 6	5	White tower, red top; 16.	
1384 <i>D 1256</i>	-Ile d'Aix.	46° 00.6' N 1° 10.7' W	Fl.W.R. period 5s fl. 0.3s, ec. 4.7s	79 24	W. 24 R. 20	Two round white towers, red tops; one tower for the light, the other as a screen to make N. limit of red sector more pronounced; 56.	R. 103°-118°, W. elsewhere. On limits of sector the flashes appear successively W. and R.
1385 <i>D 1256.3</i>	-Fort Boyard.	46° 00.0' N 1° 12.8' W	Q.(9)W. period 15s			W. CARDINAL YBY, tower, topmark.	Marks platform close W. Mussel racks marked by Fl.Y. lights 1.4 and 1.9 miles W.
1388 <i>D 1258</i>	-Fouras, jetty, head.	45° 59.8' N 1° 05.9' W	Oc.(3+1)W.G. period 12s lt. 3s, ec. 1s lt. 3s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s	30 9	W. 11 G. 8	Green and white pylon; 26.	W. 127°-084°, G. elsewhere. Passe aux Filles Range Lights between Les Pallas and Ile Madame show Oc.(2)R. 6s (synchronized). F.G. shown at extremity of Jetee de la Fumee, about 1 mile WNW.
1390 <i>D 1259</i>	--Range, front.	45° 59.0' N 1° 05.7' W	Oc.(2)R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	26 8	6	White two column platform, red top; 13.	Visible 315°-135°.
1391 <i>D 1259.1</i>	---Rear, 75 meters 042°30' from front.	45° 59.0' N 1° 05.7' W	Oc.(2)R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	62 19	6	White two column platform, red top; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-WEST COAST							
1392 <i>D 1259.4</i>	-Fourao (Port Sud), jetty, head.	45° 59.0' N 1° 05.7' W	Fl.W.R. period 4s fl. 1s, ec. 3s	20 6	W. 9 R. 6	White support, red top; 16.	W. 177°-115°, R.-177°.
1396 <i>D 1258.5</i>	-Jetee de la Fumee, head.	46° 00.3' N 1° 07.1' W	Q.G.	16 5	5	Green post; 26.	
-Charente:							
1400 <i>D 1257</i>	--First Range, front.	45° 58.0' N 1° 04.3' W	Dir.Q.R.	26 8	19	White square tower, red top; 29.	Intensified 113°-117°.
1404 <i>D 1257.1</i>	---Rear, about 600 meters 115° from front.	45° 57.9' N 1° 03.8' W	Dir.Q.R.	69 21	20	White square tower, red top; 75.	Intensified 113°-117°.
			Q.R.		8		Visible 322°-067° from berth of Port des Barques.
1408 <i>D 1264</i>	--Port des Bargues, second Range, front.	45° 56.9' N 1° 04.2' W	Iso.G. period 4s	16 5	9	White square tower; 19.	Intensified 125°-145°.
1412 <i>D 1264.1</i>	---Rear, 490 meters 134°18' from front.	45° 56.7' N 1° 03.9' W	Iso.G. period 4s	43 13	11	White square tower, black band on W. side, upper part black; 52.	Intensified 125°-145°. Synchronized with front.
ILE D'OLERON:							
1416 <i>D 1272</i>	-Rocher d'Antioche, Ile D'Oleron, N. shore.	46° 04.0' N 1° 23.6' W	Q.W.	66 20	11	N. CARDINAL BY, tower, topmark; 89.	
1420 <i>D 1270</i>	- Chaissiron.	46° 02.9' N 1° 24.5' W	Fl.W. period 10s fl. 0.2s, ec. 9.8s	164 50	28	White round tower, black bands; 141.	Partially obscured 297°-351°. Signal station.
1422 <i>D 1274</i>	-Saint-Denis-d'Oleron.	46° 02.2' N 1° 22.0' W	Fl.(2)W.G. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	36 11	W. 9 G. 6	Square stone hut, post; 13.	G. 205°-277°, W.-292°, G.-165°, obsc.-205°.
1422.5 <i>D 1274.6</i>	--S. pier, head.	46° 02.2' N 1° 22.1' W	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	30 9	6	Square stone hut; 3.	
1423 <i>D 1274.4</i>	-Directional light.	46° 01.7' N 1° 21.8' W	Dir.Iso.W.R.G. period 4s	46 14	W. 11 R. 8 G. 8	White concrete post, gallery; 33.	G. 190°-204°, W.-206°, R.-220°.
1424 <i>D 1276</i>	-La Perotine, training wall, head.	45° 58.2' N 1° 13.8' W	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	26 8	5	White pylon, red top; 23.	
1428 <i>D 1277</i>	-Tourelle Juliar.	45° 54.1' N 1° 09.5' W	Q.(3)W.G. period 10s	39 12	W. 11 G. 8	E. CARDINAL BYB, tower, topmark; 69.	W. 147°-336°, G.-147°.
1432 <i>D 1278</i>	-Chateau Range, front.	45° 53.1' N 1° 11.4' W	Q.R.	36 11	7	White tower, red rectangular daymark; 6.	Visible 191°-087°
1436 <i>D 1278.1</i>	--Rear, about 240 meters 319° from front.	45° 53.2' N 1° 11.6' W	Q.R.	79 24	7	White round tower, red top; 59.	
1440 <i>D 1287.5</i>	-St. Trojan.	45° 50.9' N 1° 12.4' W	Fl.G. period 4s	26 8	5	Gray mast; 26.	Viaduct d'Oleron marked by F.W. light 2 kilometers ENE.
-La Cotiniere:							
1444 <i>D 1284</i>	--Approach.	45° 54.3' N 1° 18.7' W	Dir.Oc.W.R.G. period 4s lt. 3s, ec. 1s	43 13	W. 11 R. 9 G. 9	White tower, white rectangular daymark, black border; 20.	G. 033°-046°, W.-050°, R.- 063°, obsc.-033°.
1448 <i>D 1285</i>	--Entrance Range, front.	45° 54.8' N 1° 19.6' W	Dir.Oc.(2)W. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	20 6	13	White tower, red top; 16.	Visible 329°-349°. Synchronized with rear.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-WEST COAST							
1452 <i>D 1285.1</i>	---Rear, 425 meters 339° from front.	45° 54.9' N 1° 19.8' W	Dir.Oc.(2)W. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	46 14	12	Pylon, red and white bands; 36.	Synchronized with front. Intensified 329°-349°.
1456 <i>D 1286</i>	--Jetty elbow.	45° 54.9' N 1° 19.7' W	Oc.R. period 4s lt. 3s, ec. 1s	36 11	8	White tower, red top; 36.	R. 133°-218°, obsc.-133°.
1460 <i>D 1286.4</i>	---Head.	45° 54.7' N 1° 19.6' W	Fl.R. period 4s fl. 1s, ec. 3s	33 10	6	White tower, red top; 33.	
1464 <i>D 1286.6</i>	--S. jetty, head.	45° 54.9' N 1° 19.7' W	Iso.G. period 4s	30 9	7	White tower, green top; 26.	
1468 <i>D 1287</i>	--Epi du Colombier, entrance, E. side.	45° 54.8' N 1° 19.7' W	F.Bu.	20 6	4	White tower, violet top; 16.	
GIRONDE:							
1472 <i>D 1288.4</i>	-Pointe de Mus de Loup, Seudre River, entrance, S. bank.	45° 47.8' N 1° 08.6' W	Oc.G. period 4s lt. 3s, ec. 1s	26 8	6	Green and white column, white to seaward; 26.	Visible 118°-147°.
1476 <i>D 1290</i>	-Pointe de la Coubre.	45° 41.8' N 1° 13.9' W	Fl.(2)W. period 10s fl. 0.1s, ec. 7.4s	210 64	28	White tower, red top; 213.	Radiobeacon.
			F.R.G.	138 42	G. 10	Same tower.	R. 030°-043°, G.-060°, R.-110°. Auxiliary light.
1478 <i>D 1289</i>	-BXA Buoy.	45° 37.6' N 1° 28.6' W	Iso.W. period 4s			SAFE WATER RW, pillar, topmark.	Whistle. Radar reflector.
	-RACON		B(-•••)				
1480 <i>D 1300</i>	-Plateau de Cordouan.	45° 35.2' N 1° 10.4' W	Oc.(1+2)W.R.G. period 12s lt. 3.6s, ec. 1.2s lt. 3.6s, ec. 1.2s lt. 1.2s, ec. 1.2s	197 60	W. 22 R. 18 G. 18	White conical tower, gray band and gray at top; 223.	W. 014°-126°, G.-178°30', W.-250°, W. (unintensified)-267°, R. (unintensified)-294°30', R.-014°.
1488 <i>D 1293.9</i>	--La Palmyre Range, front.	45° 39.6' N 1° 08.7' W	Dir.Iso.W. period 4s	69 21	22	White round mast on dolphin; 88.	Intensified 080°30'-082°30'.
			Q.(2)W. period 5s fl. 0.2s, ec. 0.8s fl. 0.2s, ec. 3.8s	33 10	2		
1492 <i>D 1294</i>	---Common rear, about 2000 meters 081°30' from La Palmyre, 2100 meters 327° from Terre Negre.	45° 39.8' N 1° 07.2' W	Dir.Q.W.	187 57	27	White radar tower; 118.	Intensified 080°30'-082°30'. Radar station.
			Dir.F.R.	187 57	17		Intensified 325°30'-328°30'. Auxiliary light.
1496 <i>D 1294.1</i>	--Terre Negre Range, front.	45° 38.8' N 1° 06.3' W	Oc.(3)W.R.G. period 12s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	128 39	W. 18 R. 14 G. 14	Tower, upper part red, lower part white; 89.	R. 304°-319°, W.-327°, G.-000°, W.-004°, G.-097°, W.-104°, R.-116°.
1500 <i>D 1310</i>	--Saint Nicolas Range, front.	45° 33.8' N 1° 04.9' W	Dir.Q.G.	72 22	16	White square tower; 42.	Intensified 061°30'-064°30'.
1504 <i>D 1310.1</i>	---Pointe de Grave, rear, about 1,550 meters 063° from front.	45° 34.2' N 1° 03.9' W	Oc.W.R.G. period 4s lt. 3s, ec. 1s	85 26	W. 19 R. 15 G. 15	Square white tower, corners and top black; 82.	W. 330°-341°, W. (unintensified)-025°, obsc.-033°, W. (unintensified)-054°, W.-233°30', R.-303°, W.-312°, G.-330°.
1505 <i>D 1313</i>	----N. jetty.	45° 34.5' N 1° 03.6' W	Q.W.	20 6	2	N. CARDINAL BY, beacon, topmark.	
1506 <i>D 1313.2</i>	----E. Elbow.	45° 34.3' N 1° 03.5' W	Iso.G. period 4s	26 8	2	STARBOARD (A) G, beacon, topmark.	Visible 190°-045°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-WEST COAST							
1508 <i>D 1312</i>	--Le Chay Range, front.	45° 37.3' N 1° 02.4' W	Dir.Q.R.	108 33	18	White tower, red top; 49.	Intensified 039°30'-042°30'.
1512 <i>D 1312.1</i>	---St. Pierre, rear, about 1.8 km. 041° from front.	45° 38.0' N 1° 01.5' W	Dir.Q.R.	200 61	18	Red water tower; 131.	Intensified 039°-043°.
1516 <i>D 1314</i>	-Port Bloc, N. mole, head.	45° 34.2' N 1° 03.7' W	Fl.G. period 4s fl. 1s, ec. 3s	30 9	3	White metal tower, green top.	Shown by day in fog.
1520 <i>D 1316</i>	--S. mole, head.	45° 34.2' N 1° 03.6' W	Iso.R. period 4s	26 8	4	White tower, red top; 56.	Shown by day in restricted visibility.
-Passe Sud:							
1524 <i>D 1326</i>	--Oil pier.	45° 31.9' N 1° 02.1' W	Dir.Iso.W.R.G. period 4s	13 4	W. 12 R. 8 G. 8	Dolphin, white rectangular daymark, black stripe; 36.	G. 165°-170°, W.-173°, R.-178°.
Fl.G. period 2.5s				16 5			
1532 <i>D 1327</i>	-Pointe de la Chambrette, N. side.	45° 33.1' N 1° 02.5' W	Fl.(3)G. period 12s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 7s	43 13	2	Green structure; 10.	
1533 <i>D 1327.2</i>	--S. side.	45° 32.8' N 1° 02.3' W	Fl.G. period 2.5s fl. 0.5s, ec. 2s	43 13	2	Green structure; 10.	Visible 180°-060°.
-Royan:							
1536 <i>D 1304</i>	--S. Jetty.	45° 37.1' N 1° 01.7' W	V.Q.(2)R. period 1s	36 11	12	White tower, red base; 33.	Horn: 2 bl. ev. 20s (bl. 3s, si. 3s, bl. 3s, si. 11s). Horn blown by day from 2 hours 30 minutes before to 2 hours after high tide.
1540 <i>D 1308</i>	--New Jetty, head.	45° 37.2' N 1° 01.6' W	Oc.(2)R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	26 8	6	White tower, red top; 23.	
1544 <i>D 1307</i>	--E. Jetty.	45° 37.3' N 1° 01.6' W	Fl.G. period 4s fl. 1s, ec. 3s	7 2	6	White post, green top; 13.	Visible 311°-151°.
1556 <i>D 1372</i>	Hourtin.	45° 08.5' N 1° 09.7' W	Fl.W. period 5s fl. 0.1s, ec. 4.9s	180 55	23	Red square brick tower; 89.	
1560 <i>D 1378</i>	Cap Ferret.	44° 38.9' N 1° 14.8' W	Fl.R. period 5s fl. 0.1s, ec. 4.9s	175 53	27	White tower, red top; 171.	Radiobeacon.
Oc.(3)W. period 12s lt. 1.5s, ec. 1.5s				151 46	14	Same tower.	Visible 045°-135°. Auxiliary light.
1576 <i>D 1380</i>	-La Salie, wharf, head.	44° 30.9' N 1° 15.9' W	Q.(9)W. period 15s	62 19	10	W. CARDINAL YBY, topmark.	
1580 <i>D 1382</i>	Contis-les-Bains.	44° 05.7' N 1° 19.2' W	Fl.(4)W. period 25s fl. 0.1s, ec. 4.1s fl. 0.1s, ec. 4.1s fl. 0.1s, ec. 4.1s fl. 0.1s, ec. 12.3s	164 50	23	White round tower, black diagonal stripes; 138.	F.R. light on radio mast 16.5 miles NNE.
L'ADOUR:							
1584 <i>D 1384</i>	-Capbreton-Digue Nord, head.	43° 39.4' N 1° 26.8' W	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	42 13	12	White tower, red top; 20.	Horn: 1 bl. ev. 30s (bl. 3s, si. 27s).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-WEST COAST							
1588 <i>D 1386</i>	-Capbreton-Estacade Sud.	43° 39.4' N 1° 26.8' W	Fl.(2)G. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	30 9	12	White tower; 26.	Visible 335°-245°.
1592 <i>D 1386.5</i>	- <i>"BA" Approach Buoy.</i>	43° 32.6' N 1° 32.8' W	L.Fl.W. period 10s	26 8	5	SAFE WATER RW, pillar, topmark.	Radar reflector.
1596 <i>D 1387</i>	-N. breakwater, head.	43° 31.9' N 1° 31.9' W	Q.R.	36 11	8	White tower, red top; 30.	
1600 <i>D 1387.2</i>	-Entrance Range, front.	43° 31.9' N 1° 31.2' W	Dir.Q.W.	30 9	19	White pylon, red top; 20.	Intensified 086°30'-093°30'.
1604 <i>D 1387.21</i>	--Rear, 250 meters 090° from front.	43° 31.9' N 1° 31.0' W	Dir.Q.W.	49 15	19	White pylon, red top; 39.	Intensified 086°30'-093°30'.
1608 <i>D 1387.3</i>	-Jetee Nord, head.	43° 31.9' N 1° 31.3' W	Oc.(2)R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	39 12	8	Red and white mast; 33.	Visible 296°-116°.
1612 <i>D 1387.4</i>	-Jetee Sud, head.	43° 31.8' N 1° 31.4' W	Iso.G. period 4s	30 9	10	White square tower, green top; 26.	
1616 <i>D 1387.5</i>	-S. breakwater, head.	43° 31.6' N 1° 31.7' W	Q.(9)W. period 15s	49 15	7	W. CARDINAL YBY, pylon; 46.	
1620 <i>D 1388</i>	-Inner Range, front.	43° 31.6' N 1° 31.0' W	Dir.F.G.	20 6	14	White hut, green bands; 13.	Intensified 109°-114°. Moved to meet changes in the channel. Lit when channel is practicable.
1624 <i>D 1388.1</i>	--Rear, 149 meters 111° 30' from front.	43° 31.7' N 1° 30.8' W	Dir.F.G.	33 10	14	White tower, green bands, on NE. and NW. faces; 30.	Intensified 109°-114°.
1624.5 <i>D 1390</i>	-Training wall, N. side.	43° 31.8' N 1° 31.2' W	Fl.(2)R. period 6s	30 9	8	White column, red top; 16.	Visible 296°-091°.
1625 <i>D 1390.5</i>	-S. side.	43° 31.6' N 1° 30.9' W	Fl.(2)G. period 6s	23 7	8	White column, green top; 13.	Visible 205°-295°.
1628 <i>D 1394</i>	-Des Forges Range, front.	43° 31.7' N 1° 29.9' W	Q.R.	46 14	7	White tower, red top; 43.	Visible 188°-098°.
1632 <i>D 1394.1</i>	--Rear, about 150 meters 322°24' from front.	43° 31.8' N 1° 29.9' W	Dir.Iso.R. period 4s	59 18	13	Pylon.	Intensified 312°24'-332°24'.
1633 <i>D 1391</i>	-Marina entrance, W. side.	43° 31.6' N 1° 30.4' W	Fl.G. period 2s	16 5	2	White pylon, green top; 13.	
1633.5 <i>D 1391.2</i>	--E. side.	43° 31.6' N 1° 30.4' W	F.R.	7 2			
1634 <i>D 1392</i>	-Digue basse, E. head.	43° 31.6' N 1° 30.0' W	Fl.G. period 4s	10 3	4	White pylon; 20.	
1636 <i>D 1395</i>	-Pointe de Blancpignon.	43° 30.9' N 1° 29.6' W	Fl.(2)G. period 6s	26 8	9	White column, green top; 23.	
1648 <i>D 1396</i>	-Forme de Radoub.	43° 30.5' N 1° 29.8' W	V.Q.G.	56 17	3	White structure, green top; 39.	
1656 <i>D 1400</i>	-L'Aveugle Bridge.	43° 30.1' N 1° 29.5' W	Dir.Q.W.R.G. period 1.2s		W R G. 3 2 2	Metal column.	G. 165°-170°, W.-175, R.-180°.
1660 <i>D 1410</i>	Pointe St. Martin.	43° 29.6' N 1° 33.3' W	Fl.(2)W. period 10s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 7.4s	240 73	29	Round white tower, black top; 154.	
1664 <i>D 1413</i>	Guethary Range, front.	43° 25.6' N 1° 36.5' W	Q.R.	36 11	6	White post, red top; 26.	
1668 <i>D 1413.1</i>	--Rear, about 66 meters 133° from front.	43° 25.6' N 1° 36.5' W	Q.R.	108 33	6	White tower; 23.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-WEST COAST							
1672 <i>D 1412.4</i>	-Port des Pecheurs entrance Range, front.	43° 29.1' N 1° 33.9' W	Fl.R. period 2s fl. 0.4s, ec. 1.6s	23 7	2		
1676 <i>D 1412.41</i>	--Rear, 83 meters 174° from front.	43° 29.0' N 1° 33.9' W	Fl.R. period 2s fl. 0.4s, ec. 1.6s	62 19	2		
BAIE DE ST.-JEAN-DE-LUZ:							
1680 <i>D 1414</i>	-Pointe St. Barbe Range, front.	43° 24.0' N 1° 39.8' W	Dir.Oc.(4)R. period 12s lt. 5s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s	98 30	18	White structure, white triangular daymark; 23.	Intensified 095°-107°.
1684 <i>D 1416</i>	--Rear, 340 meters 101° from front.	43° 24.0' N 1° 39.5' W	Dir.Oc.(4)R. period 12s lt. 5s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s	154 47	18	White square tower, black triangular daymark; 49.	Intensified 095°-107°. Synchronized with front.
1688 <i>D 1418</i>	-E. jetty, Range, front.	43° 23.3' N 1° 40.1' W	Dir.Q.G.	59 18	16	White square tower, red stripe; 46.	Intensified 149°30'-152°00'.
1692 <i>D 1420</i>	--Rear, 410 meters 150°42' from front.	43° 23.0' N 1° 40.0' W	Dir.Q.G.	89 27	16	White square tower, green stripe; 89.	Intensified 149°42'-152°12'.
1696 <i>D 1422</i>	-Digue des Criquas, head.	43° 23.9' N 1° 40.6' W	Iso.G. period 4s	36 11	6	Square green tower; 20.	Horn: 1 bl. ev. 15s (bl. 3s, si. 12s).
1700 <i>D 1424</i>	Le Socoa Range, front.	43° 23.8' N 1° 41.1' W	Q.W.R.	118 36	W. 12 R. 8	White square turret, black stripe; 39.	R. 264°-282°, W. elsewhere. Siren: (300 meters E.)
1704 <i>D 1424.1</i>	-Bordagain, rear, 1,430 meters 138°30' from front.	43° 23.2' N 1° 40.4' W	Dir.Q.W.	220 67	20	White tower with black bands, black rectangular daymark, white band; 39.	Intensified 134°30'-141°30'.
1708 <i>D 1425</i>	Hendaye, jetty, head.	43° 22.7' N 1° 47.2' W	L.Fl.R. period 10s fl. 3s, ec. 7s	23 7	5	White column, red top; 13.	

Section 2

North and West Coasts of Spain

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-NORTH COAST							
1712 <i>D 1452</i>	Cabo Higuer.	43° 23.6' N 1° 47.4' W	Fl.(2)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	213 65	23	White masonry tower and lantern; 69.	Visible 072°-340°.
1716 <i>D 1454.3</i>	Puerto de Fuenterrabia, N. breakwater.	43° 23.2' N 1° 47.2' W	Fl.G. period 3s fl. 0.5s, ec. 2.5s	46 14	3	Pillar; 16.	
1717 <i>D 1454</i>	-Elbow.	43° 23.3' N 1° 47.3' W	F.G.	30 9	3	Masonry column; 23.	F.G. marks head of breakwater.
1720 <i>D 1454.6</i>	-S. breakwater, head.	43° 23.3' N 1° 47.4' W	F.R.	29 9	3	Round metal post; 23.	
1724 <i>D 1453</i>	-Training wall.	43° 22.9' N 1° 47.3' W	Fl.(3)G. period 9s	36 11	5	Green and white metal tower; 16.	
PUERTO DE PASAJES:							
1728 <i>D 1456</i>	-Pasajes Ancho, on Cabo La Plata.	43° 20.1' N 1° 56.0' W	Oc.W. period 4s lt. 3s, ec. 1s	502 153	13	White building; 43.	Obscured 250°-285°. 6 F.R. mark radio tower 1.96 km. 254°.
-RACON K(- • -)							
1730 <i>D 1456.2</i>	-East Banca.	43° 20.1' N 1° 55.7' W	Fl.R. period 5s fl. 1s, ec. 4s	66 20	11	Red metal tower.	
1731 <i>D 1456.4</i>	-West Banca.	43° 20.1' N 1° 55.7' W	Fl.G. period 5s fl. 1s, ec. 4s	66 20	11	Green metal tower.	
1732 <i>D 1457</i>	-Arando Grande, on E. entrance point.	43° 20.1' N 1° 55.7' W	Fl.(2)R. period 7s fl. 1s, ec. 1s fl. 1s, ec. 4s	39 12	11	White masonry tower, red bands; 26.	
1734 <i>D 1457.5</i>	-Atalaya Semaforo, Pilot lookout station.	43° 20.0' N 1° 55.5' W	3 Fl.R. period 2s	322 98	5	Black metal strucure; 30.	
3 F.G.							
3 F.R.							
-RACON K(- • -) 20							
1736 <i>D 1458</i>	-Senocozulua.	43° 19.8' N 1° 55.6' W	Dir.Oc.(2)W.R.G. period 12s lt. 7.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	171 52	W. 6 R. 3 G. 3	White prismatic tower with cupola on white building; 23.	G. 129°30'-154°30', W.-157°, R.-190°. Bounding the W. sectors, there are two small sectors in which up to 3 km. the light is but faintly seen.
-RACON M(- -)							
1740 <i>D 1459</i>	--Range, front.	43° 20.0' N 1° 55.5' W	Q.W.	226 69	18	White masonry tower; 16.	
1744 <i>D 1459.1</i>	---Rear, about 45 meters 154°49' from front.	43° 19.8' N 1° 55.6' W	Oc.W. period 3s lt. 2s, ec. 1s	289 88	18	Masonry tower; 16.	
1748 <i>D 1460</i>	-Dique de Senocozulua, head.	43° 20.0' N 1° 55.5' W	Fl.(2)G. period 7s fl. 1s, ec. 1s fl. 1s, ec. 4s	46 14	11	White tower, green bands; 23.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-NORTH COAST							
1752 D 1462	-Punta de las Cruces, in water, E. of point.	43° 20.0' N 1° 55.5' W	Fl.(3)G. period 9s	36 11	9	Green and white metal tower; 20.	
1756 D 1468	-Punta del Mirador.	43° 19.6' N 1° 55.3' W	Fl.R. period 5s fl. 1s, ec. 4s	43 13	8	Stone tower; 23.	
1760 D 1470	-Ermita de Santa Ana.	43° 19.4' N 1° 55.2' W	Fl.(2)R. period 7s fl. 1s, ec. 1s fl. 1s, ec. 4s	112 34	7	Bracket on masonry hut.	
1764 D 1466	-Castilla de Santa Isabel, on point.	43° 19.7' N 1° 55.4' W	Fl.(4)R. period 11s	43 13	8	White and red metal tower; 26.	
1768 D 1472	-Punta Teodoro Arroca.	43° 19.8' N 1° 55.4' W	Fl.(3)R. period 9s	70 21	10	Red and white metal tower; 30.	
1772 D 1474	-Punta Calparra, W. side.	43° 19.8' N 1° 55.3' W	Fl.(4)G. period 11s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 4s	36 11	8	Green metal tower on white hut; 23.	
1776 D 1475	-Punta de la Torre de San Pedro, pier, head.	43° 19.7' N 1° 55.2' W	Fl.G. period 5s fl. 1s, ec. 4s	33 10	9	White column; 23.	
1780 D 1476	-Muelle Avanzado de Ancho, NE. corner.	43° 19.4' N 1° 55.3' W	Q.G.	26 8	4	White metal tower, green top.	
1784 D 1476.2	--NW. corner.	43° 19.4' N 1° 55.3' W	Q.R.	26 8	4	White metal tower, red top.	
SAN SEBASTIAN:							
1788 D 1483	-Iguelido.	43° 19.3' N 2° 00.7' W	Fl.(2+1)W. period 15s fl. 0.4s, ec. 1.8s fl. 0.4s, ec. 6s fl. 0.4s, ec. 6s	440 134	26	White round tower on N. side of dwelling; 42.	F.W. lights shown at head of W. and E. piers of Darsena de la Concha.
1792 D 1482	-Isla de Santa Clara, inside entrance to port, W. side.	43° 19.3' N 1° 59.9' W	Fl.W. period 5s fl. 0.5s, ec. 4.5s	174 53	9	White round tower on N. side of dwelling; 33.	
1796 D 1484	-La Concha Range, front.	43° 18.9' N 1° 59.5' W	Fl.R. period 1.5s fl. 0.5s, ec. 1s	39 12	8	Gray metal post; 16.	Visible 143°-173°. Intensified on range line.
1800 D 1484.1	--Rear, about 25 meters 158° from front.	43° 18.8' N 1° 59.4' W	Iso.R. period 6s	59 18	8	Gray metal post; 30.	Visible 154°-162°. Intensified on range line.
1802 D 1488.2	-Puerto de Orio.	43° 17.4' N 2° 07.9' W	Fl.R. period 3s fl. 0.5s, ec. 2.5s	46 14	3	Red masonry column.	4 F.W. light shown about 250 meters W.
1804 D 1489	Guetaria.	43° 18.6' N 2° 12.1' W	Fl.(4)W. period 15s fl. 0.4s, ec. 2.1s fl. 0.4s, ec. 2.1s fl. 0.4s, ec. 2.1s fl. 0.4s, ec. 7.1s	305 93	21	White octagonal tower; 46.	
1808 D 1493	Zumaya, on Monte Atalaya.	43° 18.2' N 2° 15.1' W	Oc.(1+3)W. period 12s lt. 3s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s lt. 3s, ec. 1s	135 41	12	Gray octagonal tower, white cupola; 39.	
1812 D 1494	-Breakwater, head.	43° 18.2' N 2° 15.0' W	Fl.G. period 5s fl. 1.5s, ec. 3.5s	65 20	3	Stone tower; 23.	

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SPAIN-NORTH COAST							
1816 <i>D 1494.2</i>	-Head of jetty, about 0.2 km. ESE. of Zumaya light.	43° 18.1' N 2° 15.0' W	Fl.(2)R. period 10s fl. 1.5s, ec. 1.5s fl. 1.5s, ec. 5.5s	33 10	3	Stone tower; 10.	
PUERTO DE MOTRICO:							
1820 <i>D 1495</i>	-W. mole, head.	43° 18.5' N 2° 22.9' W	F.G.	33 10	2	Post; 20.	
1824 <i>D 1496</i>	-Entrance Range, front, E. mole, head.	43° 18.5' N 2° 22.9' W	F.R.	33 10	2	Mast; 20.	
1828 <i>D 1496.1</i>	--Rear, tower of Ermita de San Miguel, 236° 30' from front.	43° 18.5' N 2° 22.9' W	F.R.	207 63	2	Tower; 49.	
ONDARROA:							
1832 <i>D 1498</i>	-N. breakwater.	43° 19.5' N 2° 24.9' W	Fl.(3)G. period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4.5s	49 15	12	Round gray metal tower; 10.	Siren: 3 bl. ev. 20s.
-RACON G(--•)							
1836 <i>D 1499</i>	-E. mole, head.	43° 19.5' N 2° 25.1' W	Fl.(2)R. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	23 7	6	White truncated tower; 16.	F.G. on head of N. mole, F.R. on head of S. mole at inner basin entrance.
LEQUEITIO:							
1840 <i>D 1502</i>	-Cabo de Santa Catalina.	43° 22.6' N 2° 30.6' W	Fl.(1+3)W. period 20s fl. 0.3s, ec. 6.4s fl. 0.3s, ec. 3s fl. 0.3s, ec. 3s fl. 0.3s, ec. 6.4s	151 46	17	Gray conical tower on octagonal base; 42.	Nautophone: Mo.(L) ev. 20s.
1844 <i>D 1504</i>	-Rompeolas de Amandarri.	43° 22.0' N 2° 30.0' W	Fl.G. period 4s fl. 1s, ec. 3s	33 10	5	Gray brick tower; 16.	
1848 <i>D 1506</i>	-Muelle del Tinglado, S. extremity.	43° 21.9' N 2° 30.1' W	F.G.	16 5	2	Aluminum mast; 13.	
1852 <i>D 1508</i>	-Muelle Sur, N. extremity.	43° 21.9' N 2° 30.0' W	F.R.	13 4	2	Black metal post; 13.	
1856 <i>D 1505</i>	-Dique Aislado, extremity.	43° 21.9' N 2° 30.0' W	Fl.(2)R. period 8s fl. 1s, ec. 1.5s fl. 1s, ec. 4.5s	23 7	4	Gray brick tower; 16.	
1860 <i>D 1510</i>	Elanchove, W. breakwater, N. head.	43° 24.2' N 2° 38.3' W	F.W.R.	23 7	W. R. 8 5	Red metal tripod; 19.	W. 000°-315°, R.-000°.
1864 <i>D 1510.4</i>	-Dique Norte, head.	43° 24.2' N 2° 38.3' W	Fl.G. period 3s fl. 1s, ec. 2s	26 8	4	Green metal tripod; 16.	
PUERTO DE BERMEO:							
1868 <i>D 1512</i>	-Rosape, Punta Lamiaren, S. side of harbor.	43° 25.0' N 2° 42.8' W	Fl.(2)W.R. period 10s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	125 38	7	White building.	R. 108°-204°, W.-232°.
1872 <i>D 1513</i>	-Dique Rompeolas, head.	43° 25.3' N 2° 42.7' W	Fl.G. period 4.5s fl. 1s, ec. 3.5s	59 18	4	Gray truncated masonry tower.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-NORTH COAST							
1876 <i>D 1513.2</i>	--Spur normal to Dique Rompeolas, head.	43° 25.2' N 2° 43.0' W	F.G.	16 5	2	Green metal tripod; 10.	
1880 <i>D 1514</i>	-Espigon Norte, head.	43° 25.1' N 2° 43.1' W	F.G.	16 5	3	Green metal tower; 10.	Partially obscured by Dique Rompeolas.
1888 <i>D 1513.4</i>	Breakwater, head.	43° 25.2' N 2° 42.8' W	Fl.R. period 3s fl. 0.5s, ec. 2.5s	19 6	3	Red metal tripod; 10.	
1892 <i>D 1520</i>	Cabo Machichaco.	43° 27.2' N 2° 45.2' W	Fl.W. period 7s fl. 0.3s, ec. 6.7s	400 122	24	Stone tower on NW. corner of gray building, aluminum lantern; 66.	Siren: 2 bl. ev. 60s. Radiobeacon.
1896 <i>D 1521</i>	Arminza, training wall, N. head.	43° 26.0' N 2° 54.0' W	Fl.(2)R. period 8s fl. 1s, ec. 1.5s fl. 1s, ec. 4.5s	30 9	4	Gray masonry tower; 13.	
1898 <i>D 1523</i>	Gorliz.	43° 25.9' N 2° 56.7' W	Fl.(1+2)W. period 16s fl. 1s, ec. 3s fl. 1s, ec. 1s fl. 1s, ec. 9s	541 165	22	White tower; 69.	
BILBAO:							
1900 <i>D 1524</i>	-Punta Galea.	43° 22.4' N 3° 02.0' W	Fl.(3)W. period 8s fl. 0.2s, ec. 1.5s fl. 0.2s, ec. 1.5s fl. 0.2s, ec. 4.4s	276 84	19	Stone tower and dwelling, gray cupola; 26.	Visible 011°-227°. Siren: (about 200 meters NNW.) Mo.(G) ev. 30s (bl. 2.5s, si. 2s, bl. 2.5s, si. 2s, bl. 1s, si. 20s). Radar reflector.
1904 <i>D 1524.2</i>	--Breakwater, head.	43° 22.8' N 3° 04.6' W	Fl.R. period 5s fl. 1s, ec. 4s	69 21	7	Red metal post with upper platform; 46.	
1908 <i>D 1526.4</i>	-Punta Lucero, breakwater, head.	43° 22.7' N 3° 05.0' W	Fl.G. period 5s fl. 0.5s, ec. 4.5s	75 23	10	Green tripod; 13.	Radar reflector.
	-RACON		X(- • • -) period 72s		20		
1910 <i>D 1526.6</i>	--Pontoon.	43° 21.9' N 3° 05.4' W	Fl.(2+1)G. period 15s	30 9	3	Green post, red band.	
1910.5 <i>D 1525.5</i>	-Ciervana, breakwater, elbow.	43° 21.7' N 3° 04.3' W	Fl.(2+1)G. period 10s fl. 0.5s, ec. 0.8s fl. 0.5s, ec. 2s fl. 0.5s, ec. 5.7s	72 22	5	Green round tower, red stripe; 16.	Visible 014°-275°.
1910.6 <i>D 1524.4</i>	--Head.	43° 21.5' N 3° 02.8' W	Fl.(2)G. period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6s	72 22	5	Green round tower; 16.	
1911 <i>D 1524.6</i>	-Santurce, breakwater, head.	43° 21.1' N 3° 02.7' W	Fl.(2+1)G. period 10s fl. 0.5s, ec. 0.8s fl. 0.5s, ec. 2s fl. 0.5s, ec. 5.7s	49 15	3	Green round tower, red stripe; 16.	
1912 <i>D 1525</i>	-E. breakwater, head.	43° 20.5' N 3° 01.7' W	Fl.(4)R. period 14s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 5.5s	66 20	6	White masonry tower; 49.	
1916 <i>D 1526</i>	-Entrance, E. breakwater, root.	43° 20.4' N 3° 00.8' W	Q.W.	79 24	11	White tower on house, red roof; 69.	Visible 119°-135°.
1920 <i>D 1527</i>	-Breakwater, head.	43° 20.8' N 3° 01.9' W	Fl.(2)G. period 12s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 8.5s	36 11	4	Green pillar; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-NORTH COAST							
1924 <i>D 1527.2</i>	-Espigon No. "1", N. corner, head.	43° 20.6' N 3° 01.9' W	Fl.(3)G. period 10s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 5.2s	59 18	2	Gray metal tripod; 16.	
1928 <i>D 1527.22</i>	--S. corner, head.	43° 20.6' N 3° 01.9' W	Fl.(4)G. period 12s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	59 18	2	Metal post on hut; 30.	
1932 <i>D 1527.4</i>	-Espigon No. "2", N. angle, pier under construction.	43° 20.5' N 3° 01.9' W	Fl.(2+1)G. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 6s fl. 0.5s, ec. 6s	49 15	2	Green column, red band; 20.	
1936 <i>D 1527.42</i>	--Espigon No. "2", S. extremity.	43° 20.3' N 3° 01.9' W	Fl.G. period 4s fl. 1s, ec. 3s	59 18	2	Green framework tripod; 26.	
1938 <i>D 1528</i>	-Espigon No. "3", N. corner, head.	43° 20.1' N 3° 01.7' W	Fl.(2+1)G. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 6s fl. 0.5s, ec. 6s	46 14	2	Framework tripod on white hut.	
1938.1 <i>D 1528.2</i>	--S. corner, head.	43° 20.0' N 3° 01.7' W	Q.G.	46 14	2	Framework tripod on green hut.	
1939 <i>D 1530</i>	-Santurce harbor.	43° 19.8' N 3° 01.8' W	Oc.G. period 4s lt. 3s, ec. 1s	30 9	2	Green post; 13.	
1940 <i>D 1529</i>	-Portugalete, Churruca Mole No. "3", head.	43° 20.0' N 3° 01.5' W	Fl.(2+1)G. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 6s fl. 0.5s, ec. 6s	46 14	2	Green concrete tower, red band; 26.	
1944 <i>D 1531</i>	-La Mojjonera, jetty No. "4", head.	43° 19.8' N 3° 01.1' W	Fl.(2)R. period 6s fl. 0.7s, ec. 0.7s fl. 0.7s, ec. 3.9s	39 12	2	Red metal tripod; 26.	
1948 <i>D 1532</i>	-Muelle de la Benedicta.	43° 19.2' N 3° 00.5' W	Fl.(2+1)G. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 6s fl. 0.5s, ec. 6s	39 12	2	Green metal tripod, red band; 26.	
1952 <i>D 1532.6</i>	-Darsena de Axpe, submerged mole.	43° 18.7' N 2° 58.8' W	Fl.(2+1)R. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 6s fl. 0.5s, ec. 6s	43 13	2	Red metal tripod, green band; 26	
1956 <i>D 1532.4</i>	--Morro del Fraile.	43° 18.8' N 2° 59.3' W	Fl.(3)R. period 8s fl. 0.7s, ec. 0.7s fl. 0.7s, ec. 0.7s fl. 0.7s, ec. 4.5s	33 10	1	Red metal tripod; 26.	
1960 <i>D 1535</i>	-Monte Serantes AVIATION LIGHT.	43° 20.1' N 3° 03.7' W	Oc.R. period 3s lt. 2s, ec. 1s	1470 448			
CASTRO-URDIALES:							
1964 <i>D 1536</i>	-Castillo de Santa Ana.	43° 23.0' N 3° 12.9' W	Fl.(4)W. period 24s fl. 0.6s, ec. 3.4s fl. 0.6s, ec. 3.4s fl. 0.6s, ec. 3.4s fl. 0.6s, ec. 11.4s	161 49	20	White conical tower; 52.	Siren: Mo.(C) ev. 60s (bl. 5s, si. 1.5s, bl. 2s, si. 1.5s, bl. 5s, si. 1.5s, bl. 2s, si. 41.5s).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-NORTH COAST							
1972 <i>D 1537</i>	-N. breakwater, head.	43° 22.9' N 3° 12.6' W	Fl.G. period 3s fl. 0.3s, ec. 2.7s	46 14	6	Octagonal tower; 23.	
1976 <i>D 1537.2</i>	--S. breakwater.	43° 22.7' N 3° 12.7' W	Q.(2)R. period 6s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 4.5s	33 10	5	Red iron structure.	Entrance to fishing harbor is marked by a F.G. light on the N. mole and a F.R. light on the S. mole.
PUERTO DE LAREDO:							
1980 <i>D 1540</i>	-N. breakwater, head.	43° 24.9' N 3° 25.2' W	Fl.(4)R. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	36 11	5	Concrete tower; 10.	
RIA DE SANTONA:							
1984 <i>D 1542</i>	-Punta del Pescador, Mount Santona, NE. point.	43° 27.9' N 3° 26.1' W	Fl.(3+1)W. period 15s fl. 0.8s, ec. 1.4s fl. 0.8s, ec. 1.4s fl. 0.8s, ec. 4.5s fl. 0.8s, ec. 4.5s	128 39	9	Conical masonry tower; 43.	
1992 <i>D 1546</i>	-SW. corner of passenger mole, front.	43° 26.4' N 3° 27.6' W	Fl.W. period 2s fl. 0.5s, ec. 1.5s	19 6	8	Pyramidal iron tower, triangular daymark, point down.	Visible 279°30'-287°30'.
1996 <i>D 1546.1</i>	--Rear, on bridge, 1,399 meters 283°30' from front.	43° 25.5' N 3° 28.6' W	Oc.(2)W. period 5s lt. 2.3s, ec. 1s lt. 0.7s, ec. 1s	46 14	11	Pyramidal iron tower, round daymark.	Visible 279°30'-287°30'.
2000 <i>D 1547</i>	-Darsena del Puerto.	43° 26.5' N 3° 27.8' W	F.R., F.G.	26 8	4	Metal columns.	The G. light is shown on S. side and the R. light on N. side of entrance.
2004 <i>D 1548</i>	-Nueva Darsena del Puerto, Espigon Norte, head.	43° 26.6' N 3° 27.8' W	Fl.(2)R. period 6s fl. 0.4s, ec. 1.2s fl. 0.4s, ec. 4s	26 8	4	Metal framework tower on round concrete tower; 16.	
2008 <i>D 1548.2</i>	--Espigon Sur, head.	43° 26.4' N 3° 27.8' W	Fl.G. period 5s fl. 0.5s, ec. 4.5s	26 8	3		
2012 <i>D 1549</i>	-Canal de Colindres. --Malecon N.	43° 24.6' N 3° 27.5' W	Fl.R. period 2.5s fl. 0.5s, ec. 2s	23 7	3	Red truncated masonry tower.	
2016 <i>D 1552</i>	Cabo de Ajo.	43° 30.8' N 3° 35.3' W	Oc.(3)W. period 16s lt. 6s, ec. 2s lt. 2s, ec. 2s lt. 2s, ec. 2s	233 71	17	Gray round masonry tower, aluminum lantern and cupola gray house, red roof; 26.	
SANTANDER:							
2020 <i>D 1554</i>	-Isla Mouro, in entrance.	43° 28.4' N 3° 45.4' W	Fl.(1+2)W. period 21s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 13.5s	128 39	11	White conical tower on center of dwelling; 60.	
2024 <i>D 1556</i>	-La Cerda, on W. entrance point.	43° 28.0' N 3° 45.8' W	Fl.(1+4)W. period 20s fl. 0.5s, ec. 3s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10s	79 24	8	White square tower; 30.	Obscured W. of 160°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-NORTH COAST							
2026 D 1556.5	-Puntal Range, front.	43° 27.6' N 3° 46.3' W	Q.W.	30 9	6	Post.	
	-RACON		K(— • —)		10		
2026.1 D 1556.51	--Rear, 100 meters 236° from front.	43° 27.6' N 3° 46.4' W	Iso.R. period 4s	33 10	6	Post on metal tower.	
2028 D 1557	-Pena Horadada, channel, N. side.	43° 27.8' N 3° 46.1' W	Fl.G. period 5s fl. 0.5s, ec. 4.5s	16 5	7	Black and white checkered round tower, No. "1" on sides; 16.	
2032 D 1558.2	-Darsena de Molnedo, E. mole, head.	43° 27.7' N 3° 47.6' W	Q.G.	39 12	3	Concrete column; 20.	Visible over channel and about 2 km. E. and W. of basin entrance.
2036 D 1558	--W. mole, head.	43° 27.7' N 3° 47.5' W	Q.R.	39 12	3	Concrete column; 20.	
2048 D 1559.4	-Muelle de Maliano, SE. corner.	43° 27.0' N 3° 48.9' W	Q.G.	39 12	3	Concrete column; 20.	
2050 D 1559.42	-W. corner.	43° 27.0' N 3° 49.3' W	Oc.G. period 4s lt. 3s, ec. 1s	39 12	3	Concrete column; 20.	
2052 D 1559.45	-Darsena Maliano, S. breakwater, head.	43° 26.9' N 3° 48.9' W	Fl.(2+1)G. period 10s	39 12	3	Concrete column; 20.	
2054 D 1559.6	-Range, front.	43° 27.0' N 3° 49.5' W	Iso.R. period 3s	56 17	7	Aluminum framework tower; 49.	Visible 267°-282°.
2054.1 D 1559.61	--Rear, 36 meters 274°30' from front.	43° 26.9' N 3° 49.5' W	Oc.R. period 4s lt. 3s, ec. 1s	72 22	7	Aluminum framework tower; 62.	Visible 267°-282°.
2056 D 1559.8	-Comba, Martires Anchorage, E. side.	43° 26.6' N 3° 48.5' W	Fl.(4)R. period 11s	46 14	4	PORT (A) R, beacon, topmark.	
2060 D 1561	-Cabo Mayor.	43° 29.4' N 3° 47.5' W	Fl.(2)W. period 10s fl. 0.4s, ec. 2.1s fl. 0.4s, ec. 7.1s	291 89	21	White tower, upper part round, lower part octagonal; 98.	Nautophone: 2 bl. ev. 40s (bl. 3.5s, si. 1.5s, bl. 3.5s, si. 31.5s). Radiobeacon.
2064 D 1562	Suances (San Martin de la Arena).	43° 26.5' N 4° 02.6' W	Fl.(1+2)W. period 24s fl. 0.6s, ec. 4.8s fl. 0.6s, ec. 2.4s fl. 0.6s, ec. 15s	115 35	22	White truncated tower; 30.	Obscured 091°-113°.
2068 D 1563	Ria de Suances Range, front, E. breakwater.	43° 26.2' N 4° 02.1' W	Q.W. period 1s	33 10	5	White truncated tower; 20.	
2072 D 1563.1	-Rear, on Punta Marzan about 210 meters 146° from front.	43° 26.0' N 4° 02.0' W	Iso.W. period 4s	46 14	5	White truncated concrete tower, masonry base; 33.	
COMILLAS:							
2076 D 1566	-Outer Range, front.	43° 23.3' N 4° 17.2' W	Iso.W. period 2s	118 36	4	White conical pillar, black band; 13.	
2080 D 1566.1	--Rear, 30 meters 194° from front.	43° 23.3' N 4° 17.2' W	Oc.W. period 4s lt. 3s, ec. 1s	131 40	4	White conical pillar, black band; 13.	
2084 D 1568	-Inner Range, front.	43° 23.4' N 4° 17.4' W	Iso.W. period 2s	52 16	3	White tower, black band; 13.	
2088 D 1568.1	--Rear, 245° from front.	43° 23.4' N 4° 17.4' W	F.R.	66 20	3	White tower, black band; 13.	Range lights obscured S. of 231°.
2092 D 1570	-Breakwater, head.	43° 23.5' N 4° 17.4' W	F.G.	16 5	5	Green and white concrete post; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-NORTH COAST							
RIA DE SAN VICENTE DE LA BARQUERA:							
2096 D 1574	-Punta de la Silla.	43° 23.6' N 4° 23.5' W	Oc.W. period 3.5s lt. 2.5s, ec. 1s	141 43	13	Masonry tower, dwelling; 30.	Visible 115°-250°. Nautophone: Mo.(V) ev. 30s.
2100 D 1576	-Malecon del Oeste, head.	43° 23.7' N 4° 23.1' W	Fl.W.G. period 2s fl. 0.5s, ec. 1.5s	26 8	W. 7 G. 6	Green conical masonry tower; 10.	G. 175°-235°, W.-045°.
2104 D 1577	-Escollera del Este, head.	43° 23.6' N 4° 23.1' W	Fl.(2)R. period 8s fl. 0.5s, ec. 2s fl. 0.5s, ec. 5s	26 8	5	Red conical masonry tower; 20.	
2108 D 1578	-Punta de la Espina.	43° 23.4' N 4° 23.5' W	F.G.	26 8	2	Green conical masonry tower; 16.	
2112 D 1580	Punta San Emeterio.	43° 24.0' N 4° 32.1' W	Fl.W. period 5s fl. 0.3s, ec. 4.7s	223 68	20	Round masonry tower on white hut; 29.	
2116 D 1582	Llanes.	43° 25.2' N 4° 44.9' W	Oc.(4)W. period 15s lt. 5.3s, ec. 1.9s lt. 0.7s, ec. 1.9s lt. 0.7s, ec. 1.9s lt. 0.7s, ec. 1.9s	59 18	15	White octagonal tower, house; 26.	Radiobeacon.
RIBADESELLA:							
2120 D 1586	-Somos.	43° 28.4' N 5° 05.0' W	Fl.(1+2)W. period 12s fl. 0.4s, ec. 1.2s fl. 0.4s, ec. 4.8s fl. 0.4s, ec. 4.8s	377 115	25	Quadrangular tower on dwelling; 26.	
2124 D 1587	-Breakwater, head.	43° 28.0' N 5° 04.0' W	Fl.(2)R. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	39 12	5	Concrete tower; 26.	Visible 278°-25°-212°-53'.
2128 D 1589	Puerto de Lastres, Malecon.	43° 30.9' N 5° 15.9' W	Fl.(3)G. period 9s	43 13	4	Metal column on concrete tower; 16.	
2130 D 1591	Cabo Lastres.	43° 32.1' N 5° 17.9' W	Fl.W. period 12s fl. 0.3s, ec. 11.7s	387 118	23	White round tower; 59.	
2132 D 1592	Punta de Tazones.	43° 32.9' N 5° 24.0' W	Oc.(3)W. period 15s lt. 7s, ec. 2s lt. 1s, ec. 2s lt. 1s, ec. 2s	417 127	20	Octagonal masonry tower on white hut; 36.	Fl.G. marks end of breakwater. Nautophone: (about 150 meters N.) Mo.(V) ev. 30s (bl. 1.5s, si. 1.5s, bl. 1.5s, si. 1.5s, bl. 1.5s, si. 1.5s, bl. 4.5s, si. 16.5s).
CONCHA DE GIJON:							
2136 D 1608	-Piedra da Sacramento.	43° 32.9' N 5° 40.2' W	Q.G.	29 9	8	Octagonal concrete tower.	
2140 D 1609	-Dique de Liquerica (Santa Catalina).	43° 32.8' N 5° 40.1' W	Q.(2)R. period 6s fl. 0.4s, ec. 0.4s fl. 0.4s, ec. 4.8s	23 7	10	Red metal tower; 16.	
2148 D 1610	-Malecon de Fomento, head.	43° 32.7' N 5° 40.1' W	Fl.G. period 3s fl. 0.4s, ec. 2.6s	26 8	3	Green round post; 13.	Q.G. 4m 6M shown 550 meters W.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-NORTH COAST							
-Zona de El Musel:							
2152 <i>D 1598</i>	--Contradique de Levante, head.	43° 33.6' N 5° 41.2' W	Fl.(4)R. period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	52 16	4	Red hut; 16.	
2156 <i>D 1598.4</i>	--Nuevos Muelles de la Osa, NW. corner.	43° 33.5' N 5° 41.5' W	Fl.(2)R. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	26 8	4	Red round post; 6.	
2160 <i>D 1598.3</i>	---S. corner.	43° 33.3' N 5° 41.4' W	F.R.	26 8	4	Red round post; 13.	
2166 <i>D 1606.5</i>	--Pantalan, head.	43° 33.5' N 5° 41.8' W	F.R.	26 8	4	Red post; 13.	
2168 <i>D 1602</i>	--Espigon II, head.	43° 33.7' N 5° 41.8' W	F.R.	20 6	4	Red round post; 13.	
2172 <i>D 1603</i>	--Espigon, NW. corner.	43° 33.9' N 5° 41.9' W	F.R.	20 6	4	Red metallic column; 16.	
2173 <i>D 1603.2</i>	---SE. corner.	43° 33.9' N 5° 41.8' W	F.R.	20 6	4	Red metallic column; 16.	
2184 <i>D 1598.7</i>	--Muelle del Rendiello, N. head.	43° 33.5' N 5° 41.8' W	F.R.	19 6	4	Red round post; 13.	
2186 <i>D 1598.8</i>	---S. head.	43° 33.3' N 5° 41.5' W	Fl.G. period 4.5s fl. 1s, ec. 3.5s	26 8	8	Green round post; 7.	
2187 <i>D 1598.5</i>	-Darsena de El Musel, elbow.	43° 33.3' N 5° 41.8' W	F.R.	19 6	4	White round post; 13.	
2188 <i>D 1598.45</i>	--Nuevos Astilleros, Dique de la Osa, mole, head.	43° 33.0' N 5° 41.2' W	Q.G.	56 17	8	White round tower above green pyramid base; 7.	
2192 <i>D 1599</i>	--Dique Norte, head.	43° 33.6' N 5° 41.5' W	Oc.G. period 2.5s lt. 2s, ec. 0.5s	33 10	5	Green hut.	
2196 <i>D 1597</i>	--Dique Exterior (Dique Oeste), head.	43° 34.2' N 5° 40.5' W	Fl.G. period 3s fl. 0.4s, ec. 2.6s	72 22	6	Green round post.	
2200 <i>D 1597.4</i>	--Contradique del Oeste, head.	43° 33.9' N 5° 40.9' W	Fl.(3)G. period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4.5s	52 16	4	Green metal pillar.	
2204 <i>D 1596</i>	Cabo de Torres , E. side of Cape.	43° 34.3' N 5° 42.0' W	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	269 82	18	White octagonal tower on square dwelling; 40.	
CANDAS:							
2208 <i>D 1614</i>	-Cabo San Antonio.	43° 35.7' N 5° 45.7' W	Oc.(2)W. period 10s lt. 4s, ec. 2s lt. 2s, ec. 2s	131 40	15	Red tower, white cupola behind gray dwelling; 39.	Nautophone: Mo.(C) ev. 60s.
2212 <i>D 1616</i>	-Punta del Cuerno Range, front.	43° 35.7' N 5° 45.6' W	F.R.	33 10	3	White column; 13.	
2216 <i>D 1616.1</i>	--Rear, about 920 meters 291° from front.	43° 36.0' N 5° 46.0' W	F.R.	210 64	3	Window of house; 13.	
2220 <i>D 1618</i>	-Nuevo Muelle, near extremity.	43° 35.3' N 5° 45.5' W	Fl.(2) G. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	39 12	4	Gray tower; 13.	

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SPAIN-NORTH COAST							
LUANCO:							
2224 D 1624	-Punta del Gallo Breakwater, head.	43° 37.2' N 5° 47.0' W	Fl.G. period 3s fl. 0.5s, ec. 2.5s	39 12	4	Round masonry tower; 13.	
2228 D 1622	-Entrance Range, front.	43° 36.9' N 5° 47.4' W	Fl.R. period 3s fl. 0.5s, ec. 2.5s	20 6	4	Lamp fixture on wall; 7.	
2232 D 1622.1	--Rear, 240 meters 255° from front.	43° 36.8' N 5° 47.5' W	Oc.R. period 8s lt. 6s, ec. 2s	33 10	4	White concrete tower; 23.	
2236 D 1628	Cabo Penas.	43° 39.3' N 5° 50.9' W	Fl.(3)W. period 15s fl. 0.4s, ec. 2.1s fl. 0.4s, ec. 2.1s fl. 0.4s, ec. 9.6s	385 117	35	Gray octagonal tower with building; 59.	Siren: Mo.(P) ev. 60s (bl. 1.5s, si. 1.5s, bl. 4.5s, si. 1.5s, bl. 4.5s, si. 1.5s, bl. 1.5s, si. 43.5s). Radiobeacon.
2238 D 1630.4	-Point.	43° 35.8' N 5° 56.8' W	Fl.R. period 5s fl. 0.5s, ec. 4.5s	82 25	5	Red round tower.	
RIA DE AVILES:							
2240 D 1630	-Aviles, 274 meters SE. of Punta Forcada.	43° 35.7' N 5° 56.7' W	Oc.W.R. period 5s lt. 3.5s, ec. 1.5s	131 40	W. 20 R. 17	White square tower; 46.	R. 091°30'-113°, W.-091°30'. Siren: (190 meters NNW.) Mo.(A) ev. 30s. (bl. 1.5s, si. 1.5s, bl. 5s, si. 22s). Signal station.
2244 D 1631	-Entrance, N. side.	43° 35.7' N 5° 56.7' W	Fl.(2)R. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	33 10	3	Truncated conical tower; 10.	R. lights mark N. bank. G. lights mark S. bank of Ria Aviles.
SAN ESTEBAN:							
2248 D 1634	-W. breakwater, elbow.	43° 34.0' N 6° 04.7' W	Fl.(2)W. period 12s fl. 1s, ec. 2s fl. 1s, ec. 8s	62 19	15	White round tower, black bands; 26.	Horn: Mo.(N) ev. 30s (bl. 4s, si. 1s, bl. 1s, si. 24s).
2252 D 1634.2	--Head.	43° 34.2' N 6° 04.9' W	Fl.G. period 1.5s fl. 0.5s, ec. 1s	20 6	3	Black pyramidal lantern; 10.	
2256 D 1635	-Off San Juan de la Arena Range, front.	43° 33.5' N 6° 04.7' W	F.R.	23 7	3	Metal column; 13.	
2260 D 1635.1	--Rear, 160 meters 182° from front.	43° 33.4' N 6° 04.7' W	F.R.	36 11	3	White square, red bands, on concrete pillar; 26.	
2264 D 1636	-Training wall, W. side of entrance, head.	43° 34.0' N 6° 04.6' W	Fl.(2)G. period 7s	7 2	3	Gray metal framework tower; 13.	Six F.G. lights mark the training wall on W. side of channel. Two F.Or. in line 202°30' mark entrance. Synchronized with F.R. off San Juan de la Arena, front.
2268 D 1638	-Basin entrance on fortification.	43° 33.3' N 6° 04.8' W	F.G.	16 5	3	Gray pyramidal structure; 10.	
2272 D 1638.4	-Basin entrance, dividing wall, head.	43° 33.3' N 6° 04.4' W	Fl.(2)R. period 8s	16 5	3	Gray pyramidal structure; 10.	
2276 D 1640	Punta Rebollera.	43° 33.9' N 6° 08.7' W	Oc.(4)W. period 16s	138 42	16	White octagonal tower on house; 33.	Head of E. and W. breakwaters marked by F.R. and F.G. lights. Siren: Mo.(D) ev. 30s (bl. 4.5s, si. 1.5s, bl. 1.5s, si. 1.5s, bl. 1.5s, si. 19.5s).

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SPAIN-NORTH COAST							
2280 <i>D 1641</i>	Cabo Vidio.	43° 35.6' N 6° 14.7' W	Fl.W. period 5s fl. 0.3s, ec. 4.7s	331 101	25	Round masonry tower attached to house; 30.	Siren: Mo.(V) ev. 60s (bl. 1.5s, si. 1.5s, bl. 1.5s, si. 1.5s, bl. 1.5s, si. 1.5s, bl. 4.5s, si. 46.5s).
2284 <i>D 1642</i>	Cabo Busto.	43° 34.1' N 6° 28.2' W	Fl.(4)W. period 20s	276 84	25	White square tower on dwelling; 30.	
LUARCA:							
2288 <i>D 1646</i>	-Punta La Blanca.	43° 33.0' N 6° 32.0' W	Oc.(3)W. period 15s lt. 7s, ec. 2s lt. 1s, ec. 2s lt. 1s, ec. 2s	207 63	14	White square tower; 30.	Siren: Mo.(L) ev. 30s (bl. 1.5s, si. 1.5s, bl. 4.5s, si. 1.5s, bl. 1.5s, si. 1.5s, bl. 16.5s).
2292 <i>D 1647</i>	-Dique de Canouco, head.	43° 33.0' N 6° 32.1' W	Fl.(3)R. period 9s	79 24	5	Round concrete tower; 43.	
2296 <i>D 1649</i>	-Rio Negro, entrance Range, front.	43° 32.8' N 6° 32.1' W	Fl.W. period 5s fl. 0.5s, ec. 4.5s	66 20	2	White concrete column, red bands; 33.	
2300 <i>D 1649.1</i>	--Rear, 46 meters 170° from front.	43° 32.8' N 6° 32.0' W	Oc.W. period 4s lt. 3s, ec. 1s	89 27	2	White concrete column, red bands; 13.	
2304 <i>D 1650</i>	-Dique W.	43° 33.0' N 6° 32.3' W	Fl.(3)G. period 9s	31 9	5	Metal post; 13.	
PUERTO DE VEGA:							
2308 <i>D 1652</i>	-On Punta Lama, E. of entrance.	43° 34.0' N 6° 38.7' W	Fl.R. period 5s fl. 0.5s, ec. 4.5s	39 12	3	Metal post on concrete base; 16.	
2312 <i>D 1653</i>	-W. mole, head.	43° 34.0' N 6° 38.8' W	Fl.G. period 5s fl. 0.5s, ec. 4.5s	36 11	3	Metal post; 16.	
2316 <i>D 1657</i>	Ria de Navia.	43° 33.8' N 6° 44.1' W	Oc.(2)W. period 12s lt. 6s, ec. 2s lt. 2s, ec. 2s	230 70	25	White round tower, black bands; 33.	
2320 <i>D 1657.5</i>	Puerto de Viavelez, N. jetty, head.	43° 34.0' N 6° 50.4' W	Fl.(2)R. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	33 10	4	Truncated masonry tower; 16.	
2324 <i>D 1657.6</i>	-S. jetty, head.	43° 33.9' N 6° 50.4' W	Fl.G. period 5s fl. 0.5s, ec. 4.5s	33 10	4	Truncated masonry tower; 16.	
2328 <i>D 1658</i>	Isla Tapia.	43° 34.4' N 6° 56.8' W	Fl.(2+1)W. period 19s fl. 1s, ec. 2s fl. 1s, ec. 7s fl. 1s, ec. 7s	72 22	18	White tower on building; 33.	
2332 <i>D 1659</i>	Puerto de Tapia de Casariego, N. mole, head.	43° 34.4' N 6° 56.9' W	Fl.(2)R. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	30 9	4	Truncated concrete tower; 16.	
2336 <i>D 1659.2</i>	-S. mole, head.	43° 34.4' N 6° 56.8' W	Fl.G. period 5s fl. 0.5s, ec. 4.5s	33 10	4	Truncated concrete tower; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-NORTH COAST							
RIA DE RIBADEO:							
2340 <i>D 1660</i>	-Isla Poncha.	43° 33.4' N 7° 02.5' W	Fl.(3+1)W. period 20s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s fl. 0.5s, ec. 7s	85 26	21	Round tower, white and black bands; 43.	Siren: Mo.(R) ev. 30s (bl. 1s, si. 2s, bl. 3s, si. 2s, bl. 1s, si. 21s).
2341 <i>D 1661</i>	-Punta de la Cruz.	43° 33.4' N 7° 01.8' W	Fl.(2)W. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	59 18	5	White column on tower.	
2348 <i>D 1662</i>	-Punta Aerojo, 1st Entrance Range, front.	43° 32.8' N 7° 01.5' W	Q.R.	59 18	5	White tower, red diamond daymark; 20.	
2352 <i>D 1662.1</i>	--Rear, 238 meters 140° from front.	43° 32.8' N 7° 01.3' W	Oc.R. period 4s	79 24	5	White tower, red diamond daymark; 20.	
2356 <i>D 1664</i>	--Muelle del Garcia, 2nd Range, front.	43° 32.5' N 7° 02.2' W	V.Q.R.	26 8	3	White tower, red diamond daymark; 23.	
2360 <i>D 1664.1</i>	--Rear, about 178 meters 205° from front.	43° 32.5' N 7° 02.2' W	Oc.R. period 2s lt. 1.2s, ec. 0.8s	65 20	3	Structure, white rectangular daymark; 6.	
2368 <i>D 1673</i>	Piedra Burela.	43° 39.8' N 7° 20.8' W	Q.(3)W. period 10s	39 12	7	E. CARDINAL BYB, tower, topmark; 26.	
PUERTO DE SAN CIPRIAN:							
2376 <i>D 1676</i>	-Punta Atalaya.	43° 42.1' N 7° 26.0' W	Fl.(5)W. period 20s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 9.7s	135 41	20	White round tower, black stripe; 46.	
2380 <i>D 1678.2</i>	-New port, outer Range, front.	43° 42.1' N 7° 27.8' W	Fl.(2)W. period 6s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 3.5s	82 25	3	Round tower, red and white bands; 39.	
2384 <i>D 1678.21</i>	---Rear, about 475 meters 203°55' from front.	43° 42.0' N 7° 27.8' W	Oc.W. period 6s lt. 4s, ec. 2s	115 35	3	Round tower, red and white bands; 72.	
2388 <i>D 1678.3</i>	--Inner Range, front.	43° 42.8' N 7° 28.8' W	Fl.(2)W. period 6s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 3.5s	131 40	3	Round tower, red and white bands; 75.	
2392 <i>D 1678.31</i>	---Rear, about 275 meters 273°14' from front.	43° 42.8' N 7° 28.9' W	Oc.W. period 6s lt. 4s, ec. 2s	144 44	3	Round tower, red and white bands; 39.	
2396 <i>D 1678.4</i>	--Breakwater, S. head.	43° 42.7' N 7° 27.6' W	Fl.(3)R. period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4.5s	85 26	4	Iron structure on gray column; 20.	
2400 <i>D 1678.6</i>	--N. head.	43° 43.0' N 7° 27.6' W	Fl.(2)W.G. period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6s	59 18	4	Pyramidal structure on gray octagonal base; 33.	W. 110°-180°, G.-110°.
2404 <i>D 1678</i>	-Fiqueras.	43° 41.8' N 7° 26.5' W	Dir.Q.R.W.	29 9	5	White tower, red diamond daymark; 26.	Obscured by Farallones. R. 178°-194°, W.-198°
2410 <i>D 1678.8</i>	Punta Roncadoira.	43° 44.1' N 7° 31.5' W	Fl.W. period 7.5s fl. 0.8s, ec. 6.7s	308 94	21	White round tower; 46.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-NORTH COAST							
RIA DE VIVERO:							
2412 <i>D 1679</i>	-Punta Faro.	43° 42.7' N 7° 35.0' W	Fl.(2)R. period 14s fl. 0.8s, ec. 3s fl. 0.8s, ec. 9.4s	59 18	5	White tower; 20.	
2416 <i>D 1680</i>	-Punta Socastro.	43° 43.1' N 7° 36.4' W	Fl.G. period 7s fl. 0.8s, ec. 6.2s	59 18	5	White tower; 20.	
-Rio Landrove:							
2420 <i>D 1681</i>	--Cillero.	43° 40.9' N 7° 36.0' W	Fl.(2)R. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	33 10	5	Red column; 20.	
RIA DEL BARQUERO:							
2432 <i>D 1684</i>	-Isla Coelleira, summit.	43° 45.5' N 7° 37.8' W	Fl.(4)W. period 24s fl. 1s, ec. 3s fl. 1s, ec. 3s fl. 1s, ec. 3s fl. 1s, ec. 11s	292 89	8	Gray round tower and dwelling; 23.	
2436 <i>D 1685.2</i>	-Punta de Barra.	43° 44.5' N 7° 41.3' W	Fl.W.R.G. period 3s fl. 0.3s, ec. 2.7s	56 17	5	White conical tower; 30.	G. 198°-213°, W.-240°, R.-255°, G.-070°.
2440 <i>D 1685</i>	-Punta del Castro.	43° 44.5' N 7° 40.5' W	Fl.(2)W. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	52 16	5	White conical tower; 30.	Visible 000°- 180°.
2441 <i>D 1685.11</i>	-Breakwater, N. head.	43° 44.3' N 7° 40.7' W	Fl.(4)R. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	36 11	5	Red timber pole, red and white round tower; 20.	
2442 <i>D 1685.12</i>	--S. head.	43° 44.2' N 7° 40.6' W	Fl.(4)G. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	36 11	3	Green timber pole on green and white round tower; 20.	
2444 <i>D 1686</i>	Punta de la Estaca de Bares.	43° 47.2' N 7° 41.1' W	Fl.(2)W. period 7.5s fl. 0.2s, ec. 1.5s fl. 0.2s, ec. 5.6s	331 101	25	Octagonal tower, dwelling; 33.	Obscured when bearing greater than 291° Aeromarine light. Siren: (150 meters 345°) Mo.(B) ev. 60s (bl. 6s, si. 3s, bl. 2s, si. 3s, bl. 2s, si. 3s, bl. 2s, si. 39s). Radiobeacon.
2446 <i>D 1686.1</i>	Espasante, outer breakwater.	43° 43.2' N 7° 48.9' W	Fl.R. period 5s fl. 0.5s, ec. 4.5s	42 13	3	Red and white round concrete tower; 33.	
2447 <i>D 1686.2</i>	-Inner breakwater.	43° 43.2' N 7° 48.7' W	Fl.G. period 5s fl. 0.5s, ec. 4.5s	19 6	3	Green metal tower; 16.	
2448 <i>D 1686.5</i>	Puerto de Carino, breakwater, head.	43° 44.1' N 7° 51.9' W	Fl.G. period 2s fl. 0.5s, ec. 1.5s	46 14	3	Green and white round tower; 20.	
2450 <i>D 1686.3</i>	Cape Ortegal.	43° 46.3' N 7° 52.2' W	Oc.W. period 8s lt. 6s, ec. 2s	407 124	18	White and red round tower; 33.	

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SPAIN-NORTH COAST							
2452 <i>D 1687</i>	Punta Candelaria.	43° 42.7' N 8° 02.8' W	Fl.(3+1)W. period 24s fl. 0.6s, ec. 2.4s fl. 0.6s, ec. 2.4s fl. 0.6s, ec. 8.4s fl. 0.6s, ec. 8.4s	292 89	21	Octagonal tower on dwelling; 30.	
2454 <i>D 1687.6</i>	Punta Sarridal.	43° 39.6' N 8° 04.5' W	Oc.W.R. period 6s lt. 4s, ec. 2s	135 41	11	Red round tower; 7.	W. 145°-172°, R.-145°.
2456 <i>D 1688</i>	Cedeira, on Punta Promontorio.	43° 39.1' N 8° 04.2' W	Oc.(4)W. period 10s lt. 3s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s	79 24	11	White hexagonal tower; 23.	
2458 <i>D 1690</i>	Punta de Frouxeira.	43° 37.1' N 8° 11.3' W	Fl.(5)W. period 15s	239 73	20	Pyramidal concrete tower; 98.	
2460 <i>D 1692</i>	Cabo Prior.	43° 34.1' N 8° 18.9' W	Fl.(1+2)W. period 15s fl. 0.3s, ec. 5.7s fl. 0.3s, ec. 2.7s fl. 0.3s, ec. 5.7s	351 107	22	Hexagonal masonry tower, square dwelling; 23.	Visible 055°30'-310°.
RIA DE EL FERROL:							
2464 <i>D 1694</i>	-Cabo Priorino Chico.	43° 27.5' N 8° 20.4' W	Fl.W. period 5s fl. 1s, ec. 4s	118 36	23	White octagonal tower on square dwelling; 16.	Visible 225°-129°30'.
2468 <i>D 1695</i>	-Bateria de S. Cristobal.	43° 27.9' N 8° 18.3' W	Oc.(2)W.R. period 10s lt. 4.6s, ec. 1.8s lt. 1.8s, ec. 1.8s	69 21	7	White truncated conical tower; 20.	W. 044°-064°, R.-044°.
2476 <i>D 1696</i>	-San Martin Range, front.	43° 27.6' N 8° 17.1' W	Fl.W. period 1.5s fl. 0.5s, ec. 1s	39 12	5	Concrete tower, white tile facing; 26.	F.R. on antennas .5 and 1.1 miles S. Radar reflector.
2480 <i>D 1696.1</i>	--Rear, 701 meters 085°10' from front.	43° 27.6' N 8° 16.6' W	Oc.W. period 4s lt. 3s, ec. 1s		5	Concrete tower with white tile facing; 42.	Range only usable between white sector of Bateria de S. Cristobal and N./S. of Punta Lourdal.
2484 <i>D 1697</i>	-Near Castillo de La Palma.	43° 27.8' N 8° 16.5' W	Oc.(1+2)W. period 7s lt. 1.8s, ec. 1s lt. 1.8s, ec. 1s lt. 0.4s, ec. 1s	36 11	7	Conical granite tower on dwelling; 23.	
2488 <i>D 1699</i>	-Duque de Alba, about 302 meters 070° from Punta Leira.	43° 28.0' N 8° 15.1' W	Fl.W. period 2s		3	White pyramid.	
2492 <i>D 1699.2</i>	-Pier, E. head.	43° 27.8' N 8° 13.9' W	Q.G.	42 13	1	Post; 23.	
2500 <i>D 1699.4</i>	--W. head.	43° 27.8' N 8° 14.1' W	Q.G.	42 13	1	Post; 23.	
2504 <i>D 1698.4</i>	-La Grana, S. pier, head.	43° 28.5' N 8° 15.4' W	Fl.(2)R. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	30 9	1	Red column; 13.	
2508 <i>D 1698</i>	-La Grana, petroleum pier, SW. head.	43° 28.2' N 8° 15.9' W	Q.R.	43 13	1	Metal post; 26.	Iso.R. 2s shown at NE. end.
2510 <i>D 1698.6</i>	-New pier, NW. corner.	43° 28.8' N 8° 15.2' W	Fl.(3)R. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	30 9	1	Red metal column; 13.	Fl.(3)R. 9s near SW. corner.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-NORTH COAST							
2512 <i>D 1698.84</i>	-Darsena de Curuxeiras, Muelle de Concepcion Arenal, head.	43° 28.5' N 8° 14.7' W	Fl.(4)R. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	3	Red column; 16.	
2513 <i>D 1698.7</i>	-Muelle Fernandez Ladreda.	43° 28.6' N 8° 15.0' W	Fl.G. period 5s fl. 0.5s, ec. 4.5s	30 9	3	Green metal column.	
2516 <i>D 1698.9</i>	-Arsenal, Asta del parque.	43° 28.5' N 8° 14.3' W	Fl.(2+1)R. period 12s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 1.5s	33 10	3	White round post; 23.	
2520 <i>D 1698.92</i>	--On the Punta del Martillo.	43° 28.3' N 8° 15.7' W	Fl.R. period 5s fl. 0.5s, ec. 4.5s	26 8	3	Cement post; 16.	
2524 <i>D 1698.94</i>	-Darsena No. "1", pier, end.	43° 28.7' N 8° 14.1' W	Oc.G. period 2.5s lt. 2s, ec. 0.5s	30 9	3	Green metal column; 13.	
2528 <i>D 1698.96</i>	-- No. "2", W. mole, head.	43° 28.4' N 8° 13.9' W	Fl.(2+1)G. period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 4.5s	30 9	4	Masonry column; 16.	
2532 <i>D 1698.98</i>	-Muelle commercial, head.	43° 28.3' N 8° 13.5' W	Fl.G. period 4s fl. 0.4s, ec. 3.6s	36 11	3	White truncated conical support; 16.	
2533 <i>D 1699.5</i>	-Astilleros Astano, Muelle No. "11".	43° 28.7' N 8° 11.2' W	Fl.G. period 5s fl. 0.5s, ec. 4.5s	30 9	3	Gray metal lattice tower; 10.	
2533.5 <i>D 1699.6</i>	--Muelle No. "10".	43° 28.5' N 8° 11.6' W	Fl.(2+1)G. period 12s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 1.5s	30 9	3	Gray metal lattice tower; 10.	
2534 <i>D 1699.7</i>	--Muelle No. "7".	43° 28.3' N 8° 11.9' W	Fl.(4)G. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	30 9	3	Gray metal lattice tower; 10.	
2535 <i>D 1702.9</i>	Ria de Betanzos, Perbes, breakwater, head.	43° 22.7' N 8° 13.0' W	Fl.(2)R. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	4	Red mast.	
2538 <i>D 1702.6</i>	Contradique, head.	43° 21.5' N 8° 14.7' W	Fl.(3)R. period 9s	26 8	5	Red round tower; 16.	
2540 <i>D 1700</i>	Puerto de Sada malecon, N. head.	43° 21.8' N 8° 14.4' W	Fl.(3)G. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	36 11	4	Concrete tower; 20.	
2544 <i>D 1702</i>	-Malecon, S. head.	43° 21.6' N 8° 15.0' W	Fl.R. period 2s fl. 0.5s, ec. 1.5s	23 7	3	Red tower; 10.	Visible 156°-268°30'.
LA CORUNA:							
2548 <i>D 1704</i>	-Torre de Hercules.	43° 23.2' N 8° 24.4' W	Fl.(4)W. period 20s fl. 0.3s, ec. 3s fl. 0.3s, ec. 3s fl. 0.3s, ec. 3s fl. 0.3s, ec. 9.8s	348 106	23	Dark masonry tower, lower part square, upper part octagonal; 161.	Siren: (about 165 meters 338° from light) Mo.(L) ev. 30s (bl. 1.5s, si. 1.5s, bl. 4.5s, si. 1.5s, bl. 1.5s, si. 1.5s, bl. 1.5s, si. 16.5s).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-NORTH COAST							
2552 D 1706	-Punta Mera Range, front.	43° 23.0' N 8° 21.3' W	Oc.W.R. period 4s lt. 3s, ec. 1s	184 56	8	White octagonal tower; 36.	R. 100°30'-105°30', W.- 114°30', R.-153°, R. (unintensified) 000°-023°.
	-RACON		M(- -)		18		Azimuth coverage 200°-016°.
2556 D 1708	--Rear, 300 meters 108°30' from front.	43° 22.9' N 8° 21.0' W	Fl.W. period 4s fl. 1s, ec. 3s	266 81	8	White octagonal tower; 46.	Visible 357°30'-177°30'.
2560 D 1710	-Punta Fiaiteira Range, front.	43° 20.6' N 8° 22.3' W	Iso.W.R.G. period 2s	95 29	W. 10 R. 7 G. 7	Red and white checkered rectangular masonry tower; 33.	G. 146°24'-180°, W.-184°, R.- 217°36'.
	-RACON		X(- • • -)		11		(3 & 10 cm)
2564 D 1710.1	--Rear, about 0.4 km. 182° from front.	43° 20.4' N 8° 22.3' W	Oc.R. period 4s lt. 3s, ec. 1s	177 54	3	Red and white checkered rectangular masonry tower; 33.	
2568 D 1714	-Dique de Abrigo, head.	43° 21.9' N 8° 22.5' W	Fl.G. period 3s fl. 0.5s, ec. 2.5s	59 18	6	Truncated conical concrete tower; 16.	Radar reflector.
2572 D 1716	-Castillo de San Anton.	43° 21.9' N 8° 23.3' W	Fl.(2)G. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	49 15	6	Green hexagonal tower; 20.	Visible 334°-096°42'.
2573 D 1716.4	-Muelle de San Diego, NE. corner.	43° 21.7' N 8° 23.2' W	Fl.(3)R. period 11s	36 11	4	Red round tower.	
2574 D 1716.6	--SE. corner.	43° 21.6' N 8° 23.4' W	Oc.(2)G. period 5s lt. 2s, ec. 1s lt. 1s, ec. 1s	36 11	4	Green round tower.	
2575 D 1716.2	--NW. corner.	43° 21.8' N 8° 23.7' W	Fl.(4)R. period 14s	36 11	2	Red round tower.	
2576 D 1717	-Muelle de Este, head.	43° 21.8' N 8° 23.8' W	Fl.(2)R. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	39 12	2	White round tower; 20.	
2580 D 1722	-Espigon de Trasatlanticos, N. corner.	43° 22.0' N 8° 23.8' W	Fl.(2)R. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	30 9	2	White round tower; 20.	
2584 D 1722.2	--S. corner.	43° 21.9' N 8° 23.8' W	Fl.G. period 5s fl. 0.5s, ec. 4.5s	30 9	2	White round tower; 20.	
2588 D 1723	-Oil pier, head.	43° 21.4' N 8° 22.8' W	Fl.(2+1)R. period 21s		3	Red truncated tower, green band; 16.	
2592 D 1718	-Parrote Spur, entrance to marina basin, E. side.	43° 22.2' N 8° 23.7' W	Oc.G. period 4s lt. 3s, ec. 1s	36 11	2	Green metal post; 23.	
2596 D 1720	-Marina basin entrance, W. side, W. mole.	43° 22.2' N 8° 23.7' W	Q.R.	36 11	2	Red metal post; 23.	
2600 D 1724	Cayon, entrance Range, front.	43° 19.1' N 8° 35.9' W	Fl.W. period 2s fl. 0.8s, ec. 1.2s	56 17	4	White round concrete tower; 13.	
2604 D 1724.1	--Rear, 115 meters 147°10' from front.	43° 19.1' N 8° 35.9' W	Oc.W. period 4s lt. 3s, ec. 1s	148 45	4	White round concrete tower; 13.	
2606 D 1725	Dique de Abrigo.	43° 19.2' N 8° 36.4' W	Fl.(3)G. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	3	Green round tower; 13.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-NORTH COAST							
2608 D 1726	Malpica, jetty, head.	43° 19.4' N 8° 48.4' W	Fl.G. period 3s fl. 0.5s, ec. 2.5s	66 20	4	White masonry tower; 13.	
2612 D 1728	Islas Sisargos.	43° 21.6' N 8° 50.7' W	Fl.(3)W. period 15s fl. 0.6s, ec. 2.4s fl. 0.6s, ec. 2.4s fl. 0.6s, ec. 8.4s	361 110	23	Octagonal granite tower with grayish white cupola on white dwelling; 33.	Siren: (200 meters W.) Mo.(S) ev. 30s (bl. 3s, si. 3s, bl. 3s, si. 3s, bl. 3s, si. 15s).
2613 D 1729	Punta Nariga.	43° 19.2' N 8° 54.5' W	Fl.(3+1)W. period 20s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 7.4s fl. 0.1s, ec. 7.4s	180 55	22	Round masonry tower on building; 128.	
SPAIN-WEST COAST							
RIA DE CORME Y LAGE:							
2616 D 1730	-Punta del Roncudo, bay, N. side.	43° 16.5' N 8° 59.5' W	Fl.W. period 6s	125 38	10	White truncated conical tower; 36.	
2620 D 1733	-Corme, breakwater, head.	43° 15.7' N 8° 57.9' W	Fl.(2)R. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	46 14	3	Red round tower; 20.	
2624 D 1734	-Lage, breakwater, head.	43° 13.3' N 9° 00.0' W	Fl.G. period 3s fl. 0.5s, ec. 2.5s	56 17	4	Green round tower; 20.	
2628 D 1732	-Punta Lage.	43° 13.9' N 9° 00.7' W	Fl.(5)W. period 20s	217 66	20	White truncated conical tower; 36.	
2632 D 1736	Cabo Villano.	43° 09.6' N 9° 12.7' W	Fl.(2)W. period 15s fl. 0.5s, ec. 3.5s fl. 0.5s, ec. 10.5s	341 104	28	Grayish yellow octagonal tower, white cupola; 82.	Visible 031°30'-228°30'. Siren: Mo.(V) ev. 60s (bl. 2s, si. 3s, bl. 2s, si. 3s, bl. 2s, si. 3s, bl. 6s, si. 39s). Radiobeacon.
RACON		M(- -)		35			
2636 D 1738	-Punta de Lago.	43° 06.6' N 9° 10.0' W	Oc.(2)W.R.G. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	49 15	W. 6 R. 4 G. 4	Round concrete tower; 31.	W. 029°30'-093°, G.-107°48', W.-109°06', R.-139°18', W.-213°30'.
RIA DE CAMARINAS:							
2640 D 1739	-Camarinas, Malecon, head.	43° 07.6' N 9° 10.9' W	Fl.(3)R. period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4.5s	33 10	4	Round masonry tower; 20.	
2644 D 1736.3	-Punta Villueira, Boca S. Range, front.	43° 07.4' N 9° 11.6' W	Fl.W. period 5s fl. 1s, ec. 4s	49 15	9	White round concrete tower, red bands; 23.	Visible 1°30' each side of range line.
2648 D 1736.4	--Rear, about 610 meters 079°40' from front.	43° 07.5' N 9° 11.1' W	Iso.W. period 4s	89 27	11	White round concrete tower, red bands; 25.	Visible 1°30' each side of range line.
2656 D 1737	-Punta de la Barca.	43° 06.8' N 9° 13.2' W	Oc.W. period 4s lt. 3s, ec. 1s	43 13	7	Gray truncated conical tower; 36.	
2660 D 1740	Cabo Torinana.	43° 03.2' N 9° 17.9' W	Fl.(2+1)W. period 15s fl. 0.2s, ec. 2.2s fl. 0.2s, ec. 6.1s fl. 0.2s, ec. 6.1s	213 65	24	White round tower; 36.	Visible 340°30'-235°30'.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-WEST COAST							
2662	Torinana, Monte Xastas, RACON.	43° 01.8' N 9° 16.4' W	T(-)		35		
2664 D 1742	Cabo Finisterre.	42° 52.9' N 9° 16.3' W	Fl.W. period 5s fl. 0.3s, ec. 4.7s	469 143	23	Octagonal granite tower, dwelling; 56.	Obscured when bearing greater than 149°. Siren: 2 bl. ev. 60s (bl. 2s, si. 6s, bl. 2s, si. 50s). Radiobeacon.
	RACON		O(- - -)		35		
2666 D 1744	-Puerto de Finisterre, mole, head.	42° 54.6' N 9° 15.4' W	Fl.R. period 2s fl. 0.5s, ec. 1.5s	46 14	4	Red round tower; 16.	
RIA DE CORCUBION:							
2668 D 1760	-Cabo Cee, entrance to bay, W. side.	42° 55.0' N 9° 11.0' W	Fl.(5)W. period 13s	89 27	7	Octagonal granite tower, dwelling; 26.	
2672 D 1762	-Pier, head.	42° 56.7' N 9° 11.4' W	Fl.(2)R. period 8s fl. 1s, ec. 1.5s fl. 1s, ec. 4.5s	36 11	4	Square gray metal tower; 23.	
2676 D 1758	-Carrumeiro Chico, Corcubion Inlet, shoal.	42° 54.4' N 9° 10.8' W	Fl.(2)W. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	26 8	6	ISOLATED DANGER BRB, tower, topmark.	
RIA DE CAMARINAS:							
2680 D 1756	-Islote Lobeira Grande, center of island.	42° 52.8' N 9° 11.1' W	Fl.(3)W. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	59 18	9	White octagonal tower and hut; 33.	
2682 D 1775	-Porto Cubelo, dique exterior, head.	42° 48.4' N 9° 08.2' W	Fl.G. period 2s fl. 0.5s, ec. 1.5s	33 10	4	Green round tower; 20.	Visible 067°-174°.
2684 D 1782	Punta Insua.	42° 46.3' N 9° 07.9' W	Fl.(3)W.R. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	89 27	W. 15 R. 14	Hexagonal metal tower; 46.	R. 020°-045°, W.-070°, R.-090°, W.-125°, R.-152°, W.-020°.
RIA DE MUROS Y NOYA:							
2688 D 1784	-Punta Queixal, Monte Louro.	42° 44.4' N 9° 04.8' W	Fl.(2+1)W. period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 4.5s	89 27	9	Hexagonal granite tower, white octagonal lantern, dwelling; 23.	Obscured 081°-180°.
2692 D 1786	-Cabo Reburdino.	42° 46.2' N 9° 02.9' W	Fl.(2)R. period 7s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5s	59 18	7	White hexagonal tower and white house; 26.	Visible 168°-019°.
2696 D 1788	-Muros, Dique Exterior, head.	42° 46.6' N 9° 03.3' W	Fl.(4)R. period 13s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 4.5s	26 8	4	Red round tower, white base; 20.	
2700 D 1792	-Punta Cabeiro.	42° 44.4' N 8° 59.4' W	Fl.W.R.G. period 5s fl. 0.5s, ec. 4.5s	121 37	W. 9 R. 6 G. 6	White square tower; 13.	R. 054°30'-058°30', (range in 056°30' marks south entrance, through the carrerio), G.-099°30', W.-189°30'.
2710 D 1791	-Puerto de Noya, N.	42° 47.7' N 8° 54.5' W	Fl.R. period 5s fl. 0.5s, ec. 4.5s	26 8	4	Concrete tower; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-WEST COAST							
2711 D 1791.2	--S. breakwater.	42° 47.6' N 8° 54.5' W	Fl.(2)G. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 6.5s	26 8	4	Concrete tower; 20.	
2712 D 1790	--Muelle del Este, head.	42° 46.6' N 9° 03.4' W	F.R.	33 10	4	White round tower; 20.	
2716 D 1794	Cabo Corrubedo.	42° 34.6' N 9° 05.4' W	Fl.(2+3)W.R. period 20s fl. 0.4s, ec. 2s fl. 0.4s, ec. 2s fl. 0.4s, ec. 6s fl. 0.4s, ec. 2s fl. 0.4s, ec. 6s	105 32	15	Gray round tower.	Red sector visible 347°-040°. Siren: Mo.(O) ev. 60s (bl. 5s, si. 3s, bl. 5s, si. 3s, bl. 5s, si. 39s).
RACON		K(— • —)					
2720 D 1795	Corrubedo, mole, head.	42° 34.3' N 9° 04.2' W	Iso.W.R.G. period 3s	39 12	W. 6 R. 4 G. 3	White truncated conical tower; 16.	W. 352°-360°, R.-016°, G.-352°.
RIA DE AROSA:							
2724 D 1796	-Isla de Salvora.	42° 27.9' N 9° 00.8' W	Fl.(3+1)W. period 20s fl. 0.4s, ec. 2.3s fl. 0.4s, ec. 2.3s fl. 0.4s, ec. 6.9s fl. 0.4s, ec. 6.9s	125 38	21	White octagonal tower, red band; 52.	Clear sector visible 217°-126°.
			Fl.(3)W. period 20s fl. 0.4s, ec. 2.3s fl. 0.4s, ec. 2.3s fl. 0.4s, ec. 14.2s				Danger sector visible 126°-160°.
2732 D 1798	-Piedras del Sargo, on E. rock.	42° 30.3' N 9° 00.5' W	Q.G.	43 13	8	White truncated tower, green band; 39.	
2736 D 1799	-Port Aguino, mole, head.	42° 31.1' N 9° 00.9' W	Fl.R. period 2s fl. 0.5s, ec. 1.5s	46 14	3	Post; 3.	
2738 D 1799.5	-Islas de Sagres.	42° 30.5' N 9° 02.9' W	Fl.W. period 5s	82 25	8	Round metal column; 10.	
2740 D 1800	-Bajo Pomeririno, rock.	42° 28.9' N 8° 56.8' W	Fl.(2)G. period 12s fl. 1s, ec. 2.5s fl. 1s, ec. 7.5s	49 15	8	White truncated conical tower, green band; 46.	
2748 D 1816	-Bajo La Loba, S. rock.	42° 31.8' N 8° 55.0' W	Q.G.	33 10	3	Green truncated conical tower.	
RIA DE ROSA:							
2752 D 1824	-Bajo Piedra Seca.	42° 32.9' N 8° 55.2' W	Fl.(3)G. period 15s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 8s	39 12	8	White truncated tower, green band.	
2756 D 1818	-Isla Rua, center of island.	42° 32.9' N 8° 56.4' W	Fl.(2+1)W.R. period 21s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 13.5s	85 26	13	Gray round tower, dwelling; 46.	W. 211°30'-121°30', R.-211°30'.
-RACON		G(— — •)					
2760 D 1822	-Bajo Llagareos de Tierra, on the shoal.	42° 33.4' N 8° 59.0' W	Q.R.	26 8	4	White conical tower; 23.	
2764 D 1820	-Santa Eugenia de Riveira, pier, head.	42° 33.6' N 8° 59.2' W	Fl.(2)R. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	30 9	4	Red round tower; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-WEST COAST							
2768 D 1826	-Punta Caballo, Arosa Island, NW. side.	42° 34.3' N 8° 53.0' W	Fl.(4)W. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	43 13	10	Gray masonry octagonal tower on white house; 16.	
2772 D 1827	-Isla de Arosa, mole, head.	42° 33.9' N 8° 52.1' W	F.R.	30 9	1	Red masonry column; 20.	
2776 D 1828	-Bajo Sinal de Ostreira.	42° 35.7' N 8° 54.8' W	Fl.(3)R. period 15s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 8.5s	33 10	3	Red truncated conical tower; 33.	
2780 D 1830	-Puebla del Caraminal, mole, head.	42° 36.3' N 8° 56.0' W	Fl.(2)R. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	30 9	6	Red and white round concrete tower; 23.	
2781 D 1830.4	--Pier, head.	42° 36.3' N 8° 55.9' W	Oc.G. period 2s lt. 1.5s, ec. 0.5s	33 10	4	Green and white round concrete tower; 20.	
2784 D 1831	Puerto de Escarbote, mole, head.	42° 38.1' N 8° 54.6' W	Fl.(3)W.R. period 7s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3.5s	23 7	3	Masonry column.	W. 340°-010°, R.-340°.
2788 D 1842	-Carril, mole, head.	42° 36.8' N 8° 46.7' W	Q.G.	33 10	6	Green square tower; 20.	
2796 D 1838	-Villajuan, mole, head.	42° 35.4' N 8° 47.5' W	F.G.	20 6	3	Gray round pipe; 10.	
2804 D 1834	-Villanueva, Rio Curras entrance, N. side, mole, head.	42° 33.8' N 8° 49.9' W	Fl.(3+1)W.G. period 10s fl. 0.3s, ec. 1s fl. 0.3s, ec. 1s fl. 0.3s, ec. 3.4s fl. 0.3s, ec. 3.4s	23 7	W. G. 8 6	Round masonry tower; 20.	W. 062°12'-104°06', G.- 062°12'.
2807 D 1815	-Cambados, shelter dike.	42° 31.0' N 8° 49.7' W	Fl.(2)R. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	36 11	3	Red truncated tower; 16.	
2808 D 1814	-Breakwater, S. head.	42° 30.8' N 8° 49.2' W	Fl.R. period 4.5s fl. 0.5s, ec. 4s	30 9	8	Prismatic tower; 20.	
2812 D 1808	--Bajo Lobeira de Cambodas, off S. extremity.	42° 30.7' N 8° 51.9' W	Fl.(4)R. period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	36 11	5	White conical tower; 33.	
2820 D 1806	-Bajo Praguero.	42° 31.0' N 8° 52.8' W	Fl.G. period 3s fl. 0.4s, ec. 2.6s	33 10	4	White truncated tower, green band.	
2824 D 1810	-Bajo Golfeira.	42° 30.3' N 8° 52.0' W	Fl.(3)G. period 12s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 6.5s	36 11	4	White conical tower; 33.	
2828 D 1812	-Puerto El Grove, W. breakwater, head.	42° 29.8' N 8° 51.5' W	Oc.G. period 2.5s lt. 2s, ec. 0.5s	36 11	3	Black and white checkered masonry tower; 26.	
2832 D 1846	Isla Ons.	42° 22.9' N 8° 56.2' W	Fl.(4)W. period 24s	417 127	25	Octagonal tower; 39.	
2836 D 1847	Playa del Curro, pier.	42° 22.6' N 8° 55.9' W	Fl.R. period 4s fl. 0.5s, ec. 3.5s	30 9	2	Red round tower; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-WEST COAST							
RIA DE MARIN:							
2840 D 1848	-Bajo Camouco, on S. rock.	42° 24.0' N 8° 55.0' W	Fl.(3)R. period 18s fl. 1s, ec. 2.5s fl. 1s, ec. 2.5s fl. 1s, ec. 10s	33 10	8	Tower beacon; 23.	
2844 D 1850	-Bajo Picamillo.	42° 24.3' N 8° 53.4' W	Fl.G. period 5s fl. 0.5s, ec. 4.5s	39 12	8	Tower beacon; 42.	
2848 D 1855	-Portonovo, Dique-muelle, head.	42° 23.6' N 8° 49.2' W	Fl.(3)R. period 6s fl. 0.3s, ec. 1s fl. 0.3s, ec. 1s fl. 0.3s, ec. 3.1s	37 11	4	Red metal column; 19.	
2852 D 1856	-Sangenjo, N. side of bay, mole, head.	42° 23.9' N 8° 48.3' W	Fl.(4)R. period 12s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 7s	26 8	4	Red metal tower; 20.	
2854 D 1858	-Puerto de Rajo, mole, head.	42° 24.1' N 8° 45.3' W	Fl.(2)R. period 8s	36 11	3		
2856 D 1860	-Punta Tenlo Chico, Isla Tambo.	42° 24.5' N 8° 42.5' W	Oc.(3)W. period 8s	115 35	11	White round tower, upper part conical.	
-Pontevedra:							
2860 D 1862	--N. jetty, head.	42° 24.9' N 8° 41.5' W	Fl.R. period 5s fl. 0.5s, ec. 4.5s	23 7	4	White prismatic tower.	2 Fl.R. 3s on training wall.
2864 D 1864	--S. Jetty, head.	42° 24.8' N 8° 41.2' W	Fl.G. period 5s fl. 0.5s, ec. 4.5s	23 7	6	White prismatic tower.	2 Fl.G. on training wall.
2866 D 1865.6	-Combarro, mole, head.	42° 25.8' N 8° 42.3' W	Fl.(2)R. period 8s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	29 9	3	Red round tower; 20.	
2868 D 1866	-Marin, W. mole, head.	42° 23.9' N 8° 42.3' W	Fl.(3)G. period 7s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3.5s	30 9	6	Green round column, white base; 20.	
2872 D 1867	--Muelle Comercial, head.	42° 24.0' N 8° 42.1' W	Fl.(2+1)G. period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 4.5s	23 7	2	Green round column, red band; 13.	
2876 D 1868.4	--Puerto Pesquera, N. mole.	42° 24.0' N 8° 41.8' W	Fl.(2)R. period 6s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 3.5s	23 7	2	Red round column, white base; 13.	
2880 D 1870	-Bueu, mole, head.	42° 19.7' N 8° 47.1' W	Fl.(2)R. period 6s fl. 0.4s, ec. 1.4s fl. 0.4s, ec. 3.8s	30 9	4	Red metal pillar; 20.	
2884 D 1871	--Dique Norte, head.	42° 19.8' N 8° 47.1' W	Fl.G. period 3s fl. 0.3s, ec. 2.7s	31 9	4	Green metal pillar; 20.	
2888 D 1872	-Bajo Mourisca.	42° 20.9' N 8° 49.2' W	Fl.(2)G. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	39 12	5	Beacon tower.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-WEST COAST							
2896 <i>D 1873</i>	Punta Couso.	42° 18.6' N 8° 51.3' W	Fl.(3)W.G. period 10.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 4.5s	66 20	W. 10 G. 8	White and green round masonry tower; 16.	G. 060°-096°, W.-190°, G.-000°.
2900 <i>D 1873.4</i>	Aldan wharf.	42° 16.8' N 8° 49.4' W	Fl.(2)R. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	23 7	5	Red metal tower; 26.	
RIA DE VIGO:							
2904 <i>D 1874</i>	-Punta Robaleira, Cabo del Home, bay, N. entrance.	42° 15.0' N 8° 52.4' W	Fl.(2)W.R. period 7.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5s	82 25	W. 11 R. 9	Red tower, red lantern; 21.	W. 300°30'-321°30', R.-090°, obsc.-115°30', R.-170°30'. Radar reflector.
2908 <i>D 1876</i>	-Cabo del Home Range, front, on Cabo del Home.	42° 15.2' N 8° 52.4' W	Fl.W. period 3s fl. 1.3s, ec. 1.7s	124 38	9	Red column on white round tower; 61.	Visible 090°-180°.
2912 <i>D 1876.1</i>	--Punta Subrido, rear, 815 meters 129° from front.	42° 14.9' N 8° 51.9' W	Oc.W. period 6s lt. 4.3s, ec. 1.7s	174 53	11	Red column on white round tower; 44.	Visible 090°-180°.
-Islas Cies:							
2916 <i>D 1882</i>	--Monte Agudo, on Isla Cies del Norte, E. side.	42° 14.6' N 8° 54.2' W	Fl.G. period 5s fl. 0.8s, ec. 4.2s	79 24	9	Iron column on white round tower; 16.	Visible 146°30'-334°.
2920 <i>D 1884</i>	-- Monte Faro.	42° 12.8' N 8° 54.9' W	Fl.(2)W. period 8s fl. 1s, ec. 1s fl. 1s, ec. 5s	607 185	22	Round tower; 33.	Obscured 315°-016°30 over Bajos de los Castros and Forcados.
2924 <i>D 1886</i>	--Punta Canabal, Isla Faro, S. head.	42° 12.7' N 8° 54.8' W	Fl.(3)W. period 20s fl. 0.5s, ec. 3.5s fl. 0.5s, ec. 3.5s fl. 0.5s, ec. 11.5s	207 63	9	White tower, two turrets; 32.	
2928 <i>D 1888</i>	--Cabo Vicos, Isla San Martin, SE. point, Ria de Vigo, S. entrance.	42° 11.5' N 8° 53.5' W	Fl.(3)R. period 9s	302 92	7	White tower; 23.	Visible 210°30'-108°.
2932 <i>D 1889</i>	--Isla Boeiro.	42° 10.7' N 8° 54.6' W	Fl.(2)R. period 8s fl. 0.4s, ec. 1.6s fl. 0.4s, ec. 5.6s	72 22	6	White truncated beacon; 20.	Radar reflector.
2936 <i>D 1891</i>	-Punta Lameda, S. entrance point of bay, E. side.	42° 09.3' N 8° 50.8' W	Fl.(2)G. period 8s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	90 27	5	White masonry tower surrounded by wall; 13.	
2938 <i>D 1907</i>	-Las Serralleiras.	42° 08.8' N 8° 52.6' W	Fl.G. period 4s fl. 0.4s, ec. 3.6s	33 10	6	White truncated conical tower; 20.	
2940 <i>D 1890</i>	- Cabo Estay Range , front.	42° 11.1' N 8° 48.9' W	Iso.W. period 2s	59 18	18	Red truncated pyramidal tower, white bands; 20.	Visible 3° each side of range line. Nautophone: Mo.(V) ev. 60s (bl. 1.5s, si. 1.5s, bl. 1.5s, si. 1.5s, bl. 1.5s, si. 1.5s, bl. 1.5s, si. 42s). Radiobeacon.
-RACON							
2944 <i>D 1890.1</i>	--Rear, 660 meters 069°20' from front.	42° 11.2' N 8° 48.4' W	Oc.W. period 4s lt. 3s, ec. 1s	164 50	18	Red truncated pyramidal tower, white bands; 23.	Visible 3° each side of range line.
2948 <i>D 1893</i>	-Canido (Toralla), breakwater, head.	42° 11.7' N 8° 48.1' W	Q.G.	39 12	5	White and green tower; 23.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-WEST COAST							
2956 <i>D 1894</i>	-Bajo Tofino.	42° 13.7' N 8° 46.7' W	Fl.(4)G. period 14s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	36 11	5	Round tower, upper part green, lower white, marked "3".	
2957	-Al Cabre.	42° 13.5' N 8° 46.1' W	Q.G.	20 6	1	Metal column; 10.	
2960 <i>D 1892</i>	-Punta Borneira, N. side of bay, on shoals off point.	42° 14.4' N 8° 47.5' W	Fl.(2)R. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	43 13	7	Round tower, upper part red, lower white, marked "6"; 36.	Radar reflector.
2962 <i>D 1894.5</i>	-Dique Frigorificos del Morrazo, head.	42° 15.3' N 8° 47.1' W	Oc.R. period 4s lt. 3s, ec. 1s	23 7	3	Red round tower; 16.	
2964 <i>D 1895</i>	-Cangas, outer mole, head.	42° 15.6' N 8° 46.9' W	Fl.R. period 5s fl. 0.5s, ec. 4.5s	33 10	5	Red round tower; 19.	
2968 <i>D 1895.4</i>	--Inner mole, head.	42° 15.7' N 8° 46.9' W	Q.R.G.	33 10	3	White and red square tower; 23.	R. 065°-245°, G.-065°.
2972 <i>D 1896</i>	-Bouzas, Dique Muelle, 4th arm, head.	42° 14.0' N 8° 44.4' W	Fl.(2)G. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	33 10	3	Green round tower; 20.	Obscured 061°-110°. Radar reflector.
2976 <i>D 1895.8</i>	-Ferry jetty, NE. corner.	42° 14.1' N 8° 45.1' W	Fl.G. period 4s fl. 0.5s, ec. 3.5s	33 10	4	Green 4-sided tower; 13.	Visible 072°-319°.
2978 <i>D 1895.7</i>	--NW. corner.	42° 13.8' N 8° 45.8' W	Q.W.	26 8	3	N. CARDINAL BY, topmark.	Radar reflector.
2980 <i>D 1895.9</i>	--E. corner.	42° 14.0' N 8° 45.1' W	Fl.G. period 4s fl. 0.5s, ec. 3.5s	33 10	4	Green round tower; 13.	Visible 156°30'-066°30'.
-Vigo:							
2988 <i>D 1898</i>	--Muelle del Berbes, NE. head.	42° 14.4' N 8° 44.0' W	Oc.(3)G. period 12s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 4.5s, ec. 1.5s	33 10	4	Green tower; 19.	
2992 <i>D 1900</i>	--Muelle Trasatlanticos, W. head.	42° 14.4' N 8° 43.9' W	Fl.(2)R. period 7s	33 10	5	Masonry column; 20.	Radar reflector.
2996 <i>D 1900.2</i>	---E. head.	42° 14.6' N 8° 43.5' W	Fl.(4)G. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	33 10	5	Masonry column; 20.	Q.R. 10m 5M and Q.G. 5M mark entrance to yacht harbor 200 meters E. Radar reflector.
3000 <i>D 1901</i>	--Muelle de Transveral.	42° 14.6' N 8° 42.9' W	Fl.G. period 5s fl. 0.5s, ec. 4.5s	33 10	4	Green tower; 16.	Radar reflector.
3002	--Muelle de Guixar, N. head.	42° 15.0' N 8° 42.6' W	Fl.(3)R. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	33 10	5	Red tower; 20.	Radar reflector.
3004 <i>D 1897</i>	--Darsena No. "4", breakwater, head.	42° 14.0' N 8° 44.2' W	Fl.(2)R. period 5s fl. 0.8s, ec. 1s fl. 0.8s, ec. 2.4s	33 10	3	Metal tower; 20.	Obscured 075°-094°.
3012 <i>D 1904</i>	-La Guia.	42° 15.6' N 8° 42.1' W	Oc.(2+1)W. period 20s lt. 5.3s, ec. 2.4s lt. 2.2s, ec. 2.4s lt. 5.3s, ec. 2.4s	121 37	15	White round tower; 69.	A F.R. light is shown on pier about 915 meters and a F.G. light on pier about 640 meters E. of Punta Areino.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-WEST COAST							
3014 <i>D 1904.6</i>	-Domayo, head of pier.	42° 17.0' N 8° 41.0' W	Oc.R. period 2.5s lt. 2s, ec. 0.5s	20 6	3	White round masonry tower, red bands.	Visible 074°-341°.
3016 <i>D 1895.6</i>	-El Pego bank.	42° 15.5' N 8° 45.0' W	Fl.(4)R. period 11s	30 9	3	Red round tower; 13.	Radar reflector.
3020 <i>D 1901.6</i>	-El Con, pier.	42° 16.3' N 8° 44.2' W	F.R.	36 11	3	Red brick round tower; 19.	
3024 <i>D 1902</i>	-Moana, breakwater, head.	42° 16.5' N 8° 44.1' W	F.R.	30 9	4	Red metal column, white bands; 20.	
3029 <i>D 1902.6</i>	--Breakwater, head.	42° 16.9' N 8° 43.2' W	Fl.R. period 3s fl. 0.4s, ec. 2.6s	23 7	3	Masonry tower; 13.	
3032 <i>D 1912</i>	-Punta Tenaza, Bayona, mole, head.	42° 07.5' N 8° 50.7' W	Q.G.	39 12	6	Round tower, black and white checkers; 29.	
3040 <i>D 1911</i>	-Cabezo de San Juan (Pego Shoal) Range, front.	42° 08.2' N 8° 50.2' W	Q.(2)W. period 4s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 2.5s	23 7	4	White truncated conical tower.	Intensified 081°30'-084°30', range 9M.
3044 <i>D 1911.1</i>	--Panjon, rear, 2 km. 084° from front.	42° 08.1' N 8° 49.0' W	Oc.W. period 3.8s lt. 3s, ec. 0.8s	62 19	9	White tower, upper part conical, lower part octagonal; 29.	
3048 <i>D 1914</i>	-Panjon, mole, head.	42° 08.5' N 8° 49.5' W	Fl.(2)R. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	33 10	5	Red masonry tower; 23.	
3052 <i>D 1916</i>	Cabo Silleiro.	42° 06.2' N 8° 53.8' W	Fl.(2+1)W. period 15s fl. 0.4s, ec. 2.2s fl. 0.4s, ec. 5.8s fl. 0.4s, ec. 5.8s	279 85	24	White octagonal tower, red bands on red structure; 98.	
LA GUARDIA:							
3056 <i>D 1919</i>	-Punta del Jinete FOG SIGNAL.	41° 54.1' N 8° 52.8' W					Siren: Mo.(L) ev. 30s (bl. 1.5s, si. 1.5s, bl. 4.5s, si. 1.5s, bl. 1.5s, si. 1.5s, bl. 1.5s, si. 16.5s).
3068 <i>D 1921</i>	-Mole, head.	41° 54.0' N 8° 52.9' W	Fl.G. period 3s fl. 0.3s, ec. 2.7s	39 12	3	Green truncated tower; 10.	Fl.R. 3s 5M marks contradique.
3072 <i>D 1924</i>	Camposancos, Rio Mino, N. bank, mole.	41° 53.3' N 8° 51.0' W	Fl.R. period 4s fl. 1s, ec. 3s	23 7	3	Red round tower; 20.	

Section 3

Portugal, Southwest Coast of Spain and Gibraltar

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PORTUGAL							
3076 <i>D 2002</i>	Insua.	41° 51.5' N 8° 52.5' W	Fl.W.R.G. period 4s fl. 1s, ec. 3s	56 17	W. 12 R. 9 G. 8	White column, square base; 23.	W. 357°-204°, G.-270°, R.-357°.
3080 <i>D 2003</i>	Moledo Range, front.	41° 50.9' N 8° 51.7' W	Oc.R. period 5s lt. 3s, ec. 2s	43 13	6	Column, red and white bands; 10.	Visible over an arc of 90°.
3084 <i>D 2003.1</i>	-Rear, 25 meters 099°30' from front.	41° 50.9' N 8° 51.9' W	Oc.R. period 5s lt. 3s, ec. 2s	56 17	6	White octagonal column, red stripes; 23.	Visible over an arc of 90°.
3088 <i>D 2005</i>	Praia de Ancora Range, front.	41° 48.8' N 8° 52.0' W	L.F.I.R. period 6s fl. 2s, ec. 4s	26 8	6	Column, red and white bands; 21.	Nautophone: 1 bl. ev. 60s (bl. 15s, si. 45s). On NW. side of wall of fort.
3092 <i>D 2005.1</i>	-Rear, about 26 meters 071° from front.	41° 48.8' N 8° 52.0' W	L.F.I.R. period 6s fl. 2s, ec. 4s	36 11	6	Column, red and white bands; 25.	
3096 <i>D 2008</i>	Cabo Montedor.	41° 45.0' N 8° 52.5' W	Fl.(2)W. period 9.5s fl. 0.2s, ec. 1.7s fl. 0.2s, ec. 7.4s	338 103	22	Square masonry tower, dwelling; 92.	Nautophone: (about 503 meters WSW.) 3 bl. ev. 25s (bl. 2s, si. 2s, bl. 2s, si. 2s, bl. 2s, si. 15s).
VIANA DO CASTELO:							
3099 <i>D 2012.8</i>	-Outer breakwater, head.	41° 40.4' N 8° 50.6' W	Fl.R. period 3s fl. 1s, ec. 2s		9	Round tower, red and white bands; 33.	Nautophone: 1 bl. ev. 30s (bl. 10s, si. 20s).
3100 <i>D 2012</i>	-Rio Lima, Barra Sul, entrance Range, front.	41° 41.2' N 8° 50.3' W	Iso.R. period 4s	46 14	23	Red round tower, white gallery and lantern; 20.	Visible 241°-151°.
3104 <i>D 2012.1</i>	--Senhora da Agonia, rear, 503 meters 012°30' from front.	41° 41.5' N 8° 50.1' W	Oc.R. period 6s lt. 4s, ec. 2s	105 32	23	Red round tower, white gallery and lantern; 29.	Visible 7°30' on each side of range line.
3120 <i>D 2015</i>	Rio Neiva Range, front.	41° 37.6' N 8° 49.0' W	Oc.G. period 6s lt. 4s, ec. 2s	43 13	6	Post, red and white bands, diamond daymark.	
3124 <i>D 2015.1</i>	-Rear, 61 meters 064°54' from front.	41° 37.2' N 8° 48.7' W	Oc.G. period 6s lt. 4s, ec. 2s	62 19	6	Post, red and white bands, orange double triangular daymark, bases together.	
3128 <i>D 2016</i>	Esposende.	41° 32.5' N 8° 47.4' W	Fl.W. period 5s fl. 0.1s, ec. 4.9s	65 20	20	Red tower, yellow building attached; 49.	Nautophone: 1 bl. ev. 20s (bl. 5s, si. 15s).
3132 <i>D 2016.2</i>	Apulia Range, front.	41° 29.1' N 8° 46.7' W	Fl.W. period 3s fl. 0.5s, ec. 2.5s	39 12	8	Post, red and white bands; 16.	Siren: 1 bl. ev. 75s (bl. 15s, si. 60s).
3136 <i>D 2016.21</i>	-Rear, 70 meters 070°24' from front.	41° 29.0' N 8° 47.0' W	Fl.W. period 3s fl. 0.5s, ec. 2.5s	56 17	8	Post, red and white bands; 33.	
3148 <i>D 2018</i>	Aver-o-mar Range, front.	41° 23.6' N 8° 46.6' W	Fl.R. period 5s fl. 1.5s, ec. 3.5s	46 14	6	White round tower; 13.	
3152 <i>D 2018.1</i>	-Rear, about 81 meters E. from front.	41° 24.0' N 8° 47.0' W	Fl.R. period 5s fl. 1.5s, ec. 3.5s	52 16	6	White truncated conical tower; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PORTUGAL							
POVOA DE VARZIM:							
3160 <i>D 2020.4</i>	-Molhe Norte, head.	41° 22.2' N 8° 46.2' W	Fl.R. period 3s fl. 1s, ec. 2s	46 14	12	Metal tower; 16.	
3164 <i>D 2020.6</i>	-Molhe Sul, head.	41° 22.2' N 8° 46.0' W	L.Fl.G. period 6s fl. 2s, ec. 4s		4	Metal tower; 13.	Siren: 1 bl. ev. 40s (bl. 10s, si. 30s).
CACHINAS:							
3176 <i>D 2022</i>	-Aquilhao, second Range, front.	41° 22.0' N 8° 45.0' W	Oc.R. period 5s lt. 3s, ec. 2s	20 6	6	Post; 20.	
3180 <i>D 2022.1</i>	--Rear, about 81 meters from front.	41° 22.0' N 8° 45.0' W	Oc.R. period 5s lt. 3s, ec. 2s	49 15	8	Post; 20.	A F.R. light is shown above the F.G. light when a storm is expected.
VILA DO CONDE:							
3188 <i>D 2024</i>	-Bar Range, front, N. side of entrance to Rio Ave.	41° 20.4' N 8° 44.8' W	Oc.R. period 3s lt. 2s, ec. 1s	23 7	6	Red pylon; 16.	Second entrance range.
3192 <i>D 2024.1</i>	--Rear, about 86 meters 356° 42' from front.	41° 20.6' N 8° 44.9' W	Oc.R. period 3s	39 12	6	Red iron post on red hut; 16.	
3196 <i>D 2023</i>	-Azurara, first Range, front.	41° 20.1' N 8° 44.3' W	Iso.G. period 4s	33 10	6	Post, red and white bands; 23.	
3200 <i>D 2023.1</i>	--Rear, 100 meters 079°24' from front.	41° 20.2' N 8° 44.0' W	Iso.G. period 4s	89 27	6	Post, red and white bands; 20.	
3204 <i>D 2023.7</i>	-N. mole, head.	41° 20.1' N 8° 44.9' W	Fl.R. period 4s fl. 1s, ec. 3s	30 9	9	Column; 26.	Siren: 1 bl. ev. 30s (bl. 10s, si. 20s).
3208 <i>D 2027</i>	Vila Cha Range, front.	41° 17.6' N 8° 44.1' W	Fl.R. period 3s fl. 1s, ec. 2s	30 9	6	Round column, red and white bands; 18.	Siren: 1 bl. ev. 60s.
3212 <i>D 2027.1</i>	--Rear, 140 meters ENE. of front.	41° 17.5' N 8° 43.9' W	Fl.R. period 3s fl. 1s, ec. 2s	49 15	6	Round column, red and white bands; 18.	
3216 <i>D 2028.4</i>	Angeiras, first entrance Range, front.	41° 15.8' N 8° 43.6' W	Oc.R. period 6s lt. 4s, ec. 2s	26 8	6	Post.	Leads to shelter at sea south of Leixoes.
3220 <i>D 2028.5</i>	--Rear, 042°30' from front.	41° 15.8' N 8° 43.6' W	Oc.R. period 6s lt. 4s, ec. 2s	33 10	6	Post.	
3224 <i>D 2029</i>	Angeiras Range, front.	41° 15.7' N 8° 43.5' W	Oc.G. period 5s lt. 3s, ec. 2s	30 9	5	Iron column; 13.	Siren: (on Guarita watch tower. NE.) 1 bl. ev. 60s (bl. 30s, si. 30s).
3228 <i>D 2029.1</i>	--Rear, 234 meters 062° 30' from front.	41° 15.8' N 8° 43.4' W	Oc.G. period 5s lt. 4s, ec. 1s	43 13	5	Iron column; 13.	
3232 <i>D 2031</i>	Pedras Rubras AVIATION LIGHT.	41° 14.1' N 8° 40.4' W	Al.Fl.W.G. period 10s	279 85		Control tower; 52.	
3236 <i>D 2032</i>	Leca.	41° 12.0' N 8° 42.6' W	Fl.(3)W. period 14s fl. 0.2s, ec. 2.1s fl. 0.2s, ec. 2.1s fl. 0.2s, ec. 9.2s	187 57	28	White round concrete tower, narrow black bands, attached buildings; 151.	F.R. lights are shown from radio masts at Boa Nova.
3240 <i>D 2034</i>	-Quebra-mar, oil terminal, head.	41° 10.3' N 8° 42.4' W	Fl.W.R. period 5s fl. 0.5s, ec. 4.5s	79 24	W. 12 R. 9	Truncated tower.	R. 001°-180°, W.-001°. Reserve light range 8/7M. Nautophone: 1 bl. ev. 20s (bl. 5s, si. 15s).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PORTUGAL							
3244 <i>D 2036</i>	-S. breakwater, head.	41° 10.6' N 8° 42.3' W	Fl.G. period 4s fl. 1s, ec. 3s	56 17	7	Hexagonal tower; 33.	Visible 328°-285°. Nautophone: 1 bl. ev. 30s (bl. 10s, si. 20s).
3248 <i>D 2038</i>	-N. breakwater spur, head.	41° 10.6' N 8° 42.4' W	Fl.R. period 4s fl. 1s, ec. 3s	29 9	6	Red hut; 13.	Visible 173°-353°.
3249 <i>D 2037</i>	-Cais Oeste.	41° 11.1' N 8° 42.2' W	L.Fl.(2)R. period 12s fl. 2s, ec. 3s fl. 2s, ec. 5s	16 5	2	White post, red bands.	
RIO DOURO:							
3252 <i>D 2046</i>	-Felgueiras Mole, entrance, N. side.	41° 08.7' N 8° 40.6' W	Fl.R. period 5s fl. 0.6s, ec. 4.4s	56 17	9	Tower with red lantern; 33.	Visible 265°-134°. Siren: 2 bl. ev. 30s (bl. 5s, si. 5s, bl. 5s, si. 15s).
3256 <i>D 2048</i>	-Cantereira Range, front.	41° 08.8' N 8° 39.9' W	Oc.R. period 6s lt. 5s, ec. 1s	39 12	9	White column with gallery; 20.	Reserve light range 4M.
3260 <i>D 2048.1</i>	--Rear, Sobreiras, 564 meters 078° 30' from front.	41° 08.9' N 8° 39.6' W	Oc.R. period 6s lt. 4.5s, ec. 1.5s	108 33	9	Red and yellow striped column; 13.	Near Sobreiras beacon. Reserve light F.R. 4M.
3264 <i>D 2052</i>	Praia da Aguda Range, front.	41° 02.7' N 8° 39.1' W	L.Fl.R. period 6s fl. 2s, ec. 4s	52 16	7	Post, red and white bands; 26.	Siren: 1 bl. ev. 30s (bl. 10s, si. 20s).
3268 <i>D 2052.1</i>	-Rear, about 49 meters 069°36' from front.	41° 02.7' N 8° 39.1' W	L.Fl.R. period 6s fl. 2s, ec. 4s	66 20	7	Post, red and white bands; 39.	
3272 <i>D 2056</i>	Aveiro.	40° 38.5' N 8° 44.8' W	Fl.(4)W. period 13s fl. 0.3s, ec. 2.7s fl. 0.3s, ec. 2.7s fl. 0.3s, ec. 2.7s fl. 0.3s, ec. 5.8s	217 66	23	Red round tower, white bands, on center of two-story building; 203.	Aeromarine light.
3276 <i>D 2057</i>	-N. mole.	40° 38.5' N 8° 45.7' W	Fl.R. period 3s fl. 0.5s, ec. 2.5s	39 12	8	Truncated column, red and white bands; 20.	Nautophone: 1 bl. ev. 15s (bl. 5s, si. 10s).
3280 <i>D 2058</i>	-S. mole.	40° 38.4' N 8° 45.4' W	Fl.G. period 3s fl. 0.5s, ec. 2.5s	59 18	2	Truncated tower, green and white bands; 39.	
3281 <i>D 2056.2</i>	-Entrance Range, front.	40° 38.7' N 8° 44.9' W	Oc.R. period 3s lt. 2s, ec. 1s	36 11	8	Mast; 16.	
3282 <i>D 2056.21</i>	--Rear, 440 meters 065°12' from front.	40° 38.9' N 8° 44.7' W	Oc.R. period 6s lt. 4s, ec. 2s	52 16	9	Red column; 43.	Visible 060°36'-070°36'.
3284 <i>D 2060</i>	Cabo Mondego.	40° 11.4' N 8° 54.2' W	Fl.W. period 5s fl. 0.2s, ec. 4.8s	318 97	28	White square masonry tower, dwelling; 49.	Nautophone: 1 bl. ev. 30s.
BUARCOS:							
3288 <i>D 2062</i>	-N. of Rio Mondego Range, front.	40° 09.8' N 8° 52.4' W	Iso.W.R.G. period 6s	39 12	W. R. G. 5	9 Red round tower, white bands; 23.	G. 004°-028°, W.-048°, R.-086°.
FIGUEIRA DA FOZ:							
3296 <i>D 2066</i>	-N. mole, head.	40° 08.7' N 8° 52.5' W	Fl.R. period 6s fl. 1.5s, ec. 4.5s	49 15	9	Truncated tower; 23.	Nautophone: 1 bl. ev. 35s (bl. 10s, si. 25s).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PORTUGAL							
3300 <i>D 2068</i>	-S. mole, head.	40° 08.5' N 8° 52.3' W	Fl.G. period 6s fl. 0.5s, ec. 5.5s	42 13	7	Truncated tower; 23.	
3304 <i>D 2069</i>	-Bar Range, front.	40° 08.8' N 8° 51.9' W	Iso.R. period 5s	26 8	8	Round column, red and white bands; 10.	
3308 <i>D 2069.1</i>	--Rear, 081°30' from front.	40° 08.8' N 8° 51.0' W	Oc.R. period 6s lt. 4s, ec. 2s	39 12	8	Column, red and white bands; 21.	
3312 <i>D 2072</i>	Penedo da Saudade.	39° 45.8' N 9° 01.8' W	Fl.(2)W. period 15s fl. 0.2s, ec. 3.5s fl. 0.2s, ec. 11.1s	180 55	30	Square masonry tower, dwelling attached; 105.	Aeromarine light.
3316 <i>D 2074</i>	Nazare, fort (Morro de Nazare), SW. corner.	39° 36.2' N 9° 05.0' W	Oc.W. period 3s lt. 2s, ec. 1s	164 50	14	Red lantern on wall of fort; 26.	Visible 282°-192°. L.Fl.R. and L.Fl.G. lights mark head of moles. Siren: 1 bl. ev. 35s (bl. 10s, si. 25s).
SAO MARTINHO DO PORTO:							
3320 <i>D 2076</i>	-Ponta de Santo Antonio.	39° 30.5' N 9° 08.5' W	Iso.R. period 6s	108 33	9	White round tower, red bands.	Reserve light F.R. 4M. Siren: 1 bl. ev. 60s.
3324 <i>D 2078</i>	-Range, front.	39° 30.1' N 9° 08.3' W	Iso.R. period 1.5s	33 10	9	Round tower, red and white bands.	
3328 <i>D 2078.1</i>	--Rear, about 127 meters 145° from front.	39° 30.1' N 9° 08.2' W	Oc.R. period 6s lt. 5s, ec. 1s	39 12	6	Round tower, red and white bands.	
3332 <i>D 2084</i>	Farihaos, on Isla Farihao Grande.	39° 28.7' N 9° 32.7' W	Fl.W. period 5s fl. 1s, ec. 4s	328 100	13	Round red coral tower; 20.	
3336 <i>D 2086</i>	Berlenga.	39° 24.8' N 9° 30.5' W	Fl.W. period 10s fl. 0.2s, ec. 9.8s	397 121	27	White square masonry tower, dwelling attached; 95.	Reserve light range 26M. Nautophone: 1 bl. ev. 28s (bl. 6s, si. 22s).
3340 <i>D 2088</i>	Cabo Carvoeiro.	39° 21.5' N 9° 24.4' W	Fl.(3)R. period 15s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 9.7s	187 57	15	White square masonry tower, attached dwellings; 88.	Reserve light range 13M. Nautophone: 1 bl. ev. 35s (bl. 10s, si. 25s).
PENICHE:							
3344 <i>D 2092</i>	-Peniche de Cima Range, front.	39° 21.6' N 9° 22.3' W	L.Fl.R. period 7s fl. 2s, ec. 5s	30 9	8	Balcony with lantern on red column; 23.	Reserve light range 4M.
3348 <i>D 2092.1</i>	--Rear, 60 meters 215° from front.	39° 21.8' N 9° 22.3' W	L.Fl.R. period 7s fl. 2s, ec. 5s	43 13	6	Lantern; 33.	Reserve light range 4M.
3352 <i>D 2096</i>	-E. mole, head.	39° 20.8' N 9° 22.3' W	Fl.G. period 3s fl. 1s, ec. 2s	46 14	9	White truncated tower, green bands.	
3356 <i>D 2094</i>	-W. mole, head.	39° 20.9' N 9° 22.6' W	Fl.R. period 3s fl. 1s, ec. 2s	39 12	9	White truncated tower; red bands; 26.	Siren: 1 bl. ev. 120s (bl. 25s, si. 95s).
3360 <i>D 2098</i>	Porto das Barcas.	39° 13.8' N 9° 20.4' W	Fl.R. period 6s	92 28	6	Building; 33.	Seasonal.
3364 <i>D 2100</i>	Porto Dinheiro.	39° 13.0' N 9° 20.6' W	Oc.W. period 3s	59 18	8	Iron column; 16.	Seasonal.
3368 <i>D 2102</i>	Assenta, S. of Ponta da Lamparoeira.	39° 03.4' N 9° 24.8' W	L.Fl.W. period 5s fl. 2s, ec. 3s	246 75	13	White concrete hut, conical base; 13.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PORTUGAL							
3372 <i>D 2106</i>	Ericeira.	38° 57.8' N 9° 25.0' W	Oc.R. period 3s lt. 2s, ec. 1s	121 37	6	White concrete sentry box, black square daymark; 26.	Siren: 1 bl. ev. 70s (bl. 16s, si. 54s).
3376 <i>D 2108</i>	Cabo da Roca.	38° 46.8' N 9° 29.8' W	Fl.(4)W. period 18s fl. 0.3s, ec. 2.7s fl. 0.3s, ec. 2.7s fl. 0.3s, ec. 2.7s fl. 0.3s, ec. 8.7s	541 165	26	White square tower, red top, and buildings; 72.	Aeromarine light.
3380 <i>D 2110</i>	Cabo Raso.	38° 42.6' N 9° 29.1' W	Fl.(3)W. period 15s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 9.7s	75 23	20	Red round iron tower; 43.	Visible 324°-189°. Reserve light range 10M. Nautophone: 2 bl. ev. 60s (bl. 4s, si. 4s, bl. 4s, si. 48s).
LISBOA:							
3388 <i>D 2118</i>	-Forte Santa Marta, Barra do Norte Range, front.	38° 41.5' N 9° 25.2' W	Oc.W.R. period 6s lt. 4.5s, ec. 1.5s	82 25	W. 18 R. 14	White square tower, blue bands; 66.	R. 233°-334°, W.-098°. Reserve light range 12M. Nautophone: 1 bl. ev. 10s (bl. 3s, si. 7s).
3389 <i>D 2114</i>	-Guia, rear, 285° from front.	38° 41.8' N 9° 26.7' W	Iso.W.R. period 2s	190 58	W. 19 R. 16	White octagonal tower, dwelling; 92.	W. 326°-092°, R. 278°-292°. Reserve light range 12M (W.), 8M (R.).
3390 <i>D 2119</i>	-S. mole, head.	38° 41.6' N 9° 24.8' W	Fl.(3)R. period 4s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 1.5s	26 8	6	Metal post, red and white bands; 10.	
3390.5 <i>D 2119.1</i>	-N. mole, head.	38° 41.6' N 9° 24.9' W	Fl.(2)G. period 4s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 2.5s	26 8	3	Metal post, green and white bands; 16.	
3392 <i>D 2121</i>	-Cascais, Praia de Ribeira.	38° 41.8' N 9° 25.1' W	Oc.R. period 4s lt. 3s, ec. 1s	16 5	6	Metal column, red and white bands; 15.	Visible 251°-309°.
3396 <i>D 2122</i>	-Albatroz.	38° 41.9' N 9° 24.9' W	Oc.R. period 6s lt. 4s, ec. 2s	43 13	5	Concrete column; 20.	
3400 <i>D 2124</i>	-Sao Julia da Barra, entrance, N. side.	38° 40.5' N 9° 19.5' W	Oc.R. period 5s lt. 3s, ec. 2s	128 39	14	Gray tower, red cupola; 78.	
3404 <i>D 2126</i>	-Fort Bugio.	38° 39.6' N 9° 17.9' W	Fl.G. period 5s fl. 1s, ec. 4s	92 28	9	Round tower, red cupola; 46.	Nautophone: Mo.(B) ev. 30s.
3408 <i>D 2127</i>	-Barra do Sul Range, front, Gibalta.	38° 41.9' N 9° 16.0' W	Oc.R. period 3s lt. 2s, ec. 1s	102 31	21	Round tower, cupola, red ribs, red floodlighting; 69.	Visible 039°30'-054°30'.
3412 <i>D 2127.1</i>	--Esteiro Rear, 760 meters 047° from front.	38° 42.2' N 9° 15.6' W	Oc.R. period 6s lt. 4s, ec. 2s	269 82	21	White square tower, two red bands, dwelling; 49.	Visible 039°30'-054°30'.
	--RACON		Q(---) period 60s		15		
3413 <i>D 2127.3</i>	-VTS Alges Pier, head.	38° 41.6' N 9° 14.0' W	Fl.(2)R. period 5s fl. 1s, ec. 1s fl. 1s, ec. 2s	20 6	7	White post, red bands; 7.	
3413.3 <i>D 2127.31</i>	-MR Pier, head.	38° 41.7' N 9° 14.0' W	Fl.G. period 3s fl. 0.3s, ec. 2.7s	20 6	4	White post, green bands; 7.	
3414 <i>D 2127.15</i>	-Mama Sul.	38° 43.7' N 9° 13.6' W	Iso.W. period 6s	505 154	21	Platform on tower.	Visible 045°30'-048°30'.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PORTUGAL							
3416 <i>D 2127.4</i>	-Doca de Pedroucos, W. mole, head.	38° 41.5' N 9° 13.5' W	FL.R. period 6s fl. 0.5s, ec. 5.5s	43 13	2	Metal framework tower; 23.	
3420 <i>D 2127.6</i>	--E. mole, head.	38° 41.5' N 9° 13.4' W	F.G.	43 13	4	Metal framework tower; 23.	
3424 <i>D 2129</i>	-Doca do Bom Sucesso, entrance, W. side.	38° 41.6' N 9° 12.7' W	F.R.	36 11		Metal tower; 23.	5 groups of towers, each showing a F.R. light, are located at Alges de Cima.
3428 <i>D 2129.2</i>	--E. side.	38° 41.5' N 9° 12.6' W	F.G.	36 11		Metal tower; 23.	
3432 <i>D 2128</i>	-Portinho da Costa, NATO fuel pier, W. head.	38° 40.5' N 9° 13.3' W	F.G.	13 4	2	Lantern on mast; 2.	
3436 <i>D 2128.5</i>	--E. head.	38° 40.5' N 9° 13.2' W	F.G.	13 4	2	Lantern on mast; 2.	
3438 <i>D 2127.2</i>	-EPAC pier, W. side.	38° 40.6' N 9° 14.3' W	Q.W.	26 8	4	Metal column with two lanterns; 7.	
3438.5 <i>D 2127.25</i>	--E. side.	38° 40.6' N 9° 14.1' W	Q.W.	26 8	4	Metal column with two lanterns; 7.	
3439 <i>D 2127.18</i>	-NATO fuel pier, dolphin, W. side.	38° 40.3' N 9° 15.2' W	FL.G. period 4s fl. 1s, ec. 3s	33 10	3	Green post; 13.	
3439.2 <i>D 2127.181</i>	--T-head, W. side.	38° 40.3' N 9° 15.1' W	F.G.	26 8	3	Green post; 13.	
3439.4 <i>D 2127.182</i>	--T-head, E. side.	38° 40.4' N 9° 15.0' W	F.G.	26 8	3	Green post; 13.	
3439.6 <i>D 2127.183</i>	--Dolphin, E. side.	38° 40.4' N 9° 14.9' W	FL.G. period 5s fl. 1.5s, ec. 3.5s	33 10	3	Green post; 13.	
3440 <i>D 2130</i>	-Doca de Belem, entrance, W. side.	38° 41.6' N 9° 12.2' W	F.R.	36 11		Metal tower; 23.	
3444 <i>D 2130.2</i>	--E. side.	38° 41.6' N 9° 12.1' W	F.G.	36 11		Metal tower; 23.	
3448 <i>D 2130.4</i>	-Bridge, N. tower.	38° 41.6' N 9° 10.7' W	2 FL.(3)G. period 9s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5.5s	26 8	6	On bridge tower; 7.	Structure on each side of bridge. Visible 180°-000°. Obstruction light FL.R. 10s marks top of tower. Horn: 2 bl. ev. 25s (bl. 2.5s, si. 5s, bl. 2.5s, si. 15s).
			2 FL.(3)R. period 9s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5.5s	26 8	6		
3452 <i>D 2130.6</i>	--S. tower.	38° 41.1' N 9° 10.6' W	2 FL.(3)G. period 9s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5.5s	26 8	6	On bridge tower; 7.	Structure on each side of bridge. Visible 180°-000°. Obstruction light Iso.R. 2s marks top of tower. Horn: 1 bl. ev. 25s (bl. 5s, si. 20s).
			2 FL.(3)R. period 9s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5.5s	26 8	6		
3453 <i>D 2132</i>	-Doca da Marinha Entrance, W. side.	38° 42.5' N 9° 07.8' W	F.R.	36 11	2	Metal tower; 23.	
3453.5 <i>D 2132.2</i>	--E. side.	38° 42.5' N 9° 07.7' W	F.G.	36 11	2	Metal tower; 23.	
3454 <i>D 2132.4</i>	-Doca do Terreirodo Trigo Entrance, SW. side.	38° 42.7' N 9° 07.5' W	F.R.	36 11	2	Metal tower; 23.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PORTUGAL							
3454.5 <i>D 2132.6</i>	--NE. side.	38° 42.7' N 9° 07.5' W	F.G.	36 11	2	Metal tower; 23.	
3462 <i>D 2133.4</i>	-Lisnave.	38° 41.4' N 9° 08.5' W	Fl.G. period 2s fl. 0.5s, ec. 1.5s	13 4	3	White column, green bands.	
	-Canal do Alfeite:						
3464 <i>D 2134.2</i>	--Entrance Range, front.	38° 39.9' N 9° 08.8' W	Oc.G. period 3s	82 25	7	White tower, green bands; 79.	
3468 <i>D 2134.21</i>	---Rear, 200 meters 223°30' from front.	38° 39.9' N 9° 09.0' W	Oc.G. period 6s	128 39	7	White tower, green bands; 128.	
3480 <i>D 2134.3</i>	-Arsenal do Alfeite, E. mole.	38° 40.2' N 9° 08.4' W	L.Fl.R. period 5s fl. 2s, ec. 3s	26 8	8	Round column, white and red bands; 16.	
3481 <i>D 2134.35</i>	--W. mole.	38° 40.5' N 9° 08.7' W	L.Fl.G. period 5s fl. 2s, ec. 3s	26 8	7	Tower, green and white bands; 10.	
3488 <i>D 2135.8</i>	-Rio Coia, bridge, S. tower.	38° 39.0' N 9° 05.0' W	Fl.G. period 5s fl. 0.5s, ec. 4.5s	13 4	3	Green column.	
	-Canal do Seixal:						
3492 <i>D 2136</i>	--Pilar.	38° 38.8' N 9° 05.9' W	Fl.R. period 3s fl. 0.5s, ec. 2.5s	20 6	6	Red and white column; 7.	
3496 <i>D 2136.1</i>	--Seca.	38° 38.8' N 9° 05.9' W	Fl.G. period 3s fl. 0.5s, ec. 2.5s	20 6	5	Green column; 16.	
	-Canal do Montijo:						
3504 <i>D 2136.25</i>	--Central Electric, jetty, head.	38° 40.8' N 9° 03.4' W	L.Fl.G. period 10.5s fl. 4s, ec. 6.5s		3	Metal post.	
3505 <i>D 2136.5</i>	--Outfall, "BA6".	38° 42.3' N 9° 03.1' W	Fl.Y. period 6s fl. 1s, ec. 5s	13 4	3	SPECIAL Y, beacon, topmark.	
SESIMBRA:							
3508 <i>D 2139</i>	-Cabo Espichel.	38° 24.9' N 9° 13.0' W	Fl.W. period 4s fl. 0.3s, ec. 3.7s	551 168	26	White hexagonal masonry tower, two dwellings attached; 102.	Reserve light range 20M. Nautophone: (460 meters SW.) 1 bl. ev. 31s (bl. 8s, si. 23s).
3512 <i>D 2140</i>	-Forte do Cavalo, bay, W. side.	38° 26.0' N 9° 06.9' W	Oc.W. period 5s lt. 3s, ec. 2s	115 35	14	Red round tower; 23.	Reserve light F.W. 7M.
3516 <i>D 2144</i>	-New mole, head.	38° 26.4' N 9° 06.4' W	Fl.R. period 3s fl. 1s, ec. 2s	43 13	8	Tower, red and white bands; 23.	
3518 <i>D 2144.2</i>	-"E2N".	38° 26.6' N 9° 06.3' W	Oc.Y. period 6s lt. 5s, ec. 1s		3	SPECIAL Y, beacon, topmark; 10.	
3520 <i>D 2142</i>	-Entrance Range, front.	38° 26.4' N 9° 05.9' W	L.Fl.R. period 5s fl. 2s, ec. 3s	33 10	7	W. turret of fort; 33.	
3524 <i>D 2142.1</i>	--Rear, 004° from front.	38° 26.5' N 9° 06.0' W	L.Fl.R. period 5s fl. 2s, ec. 3s	72 22	6	NW. corner of fort; 56.	
3526 <i>D 2145</i>	-Marconi Range, W., front.	38° 26.4' N 9° 05.5' W	Fl.R. period 2.5s fl. 0.3s, ec. 2.2s	23 7	2	White triangular daymark.	Marks W. limit of submarine cable area.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PORTUGAL							
3526.1 <i>D 2145.1</i>	--Center, in line 030°.	38° 26.5' N 9° 05.4' W	Fl.R. period 2.5s fl. 0.3s, ec. 2.2s	486 148	2	White triangular daymark.	
3526.2 <i>D 2145.2</i>	--Rear, 030° from front.	38° 26.6' N 9° 05.4' W	Fl.R. period 2.5s fl. 0.3s, ec. 2.2s	636 194	2	White triangular daymark.	
3527 <i>D 2146</i>	-Serra de Achada Range, Marconi, front.	38° 26.1' N 9° 04.0' W	Fl.W. period 2.5s fl. 0.3s, ec. 2.2s	479 146	2	White triangular daymark.	Marks E. limit of submarine cable area.
3527.1 <i>D 2146.1</i>	--Center, in line 000°.	38° 26.2' N 9° 04.0' W	Fl.W. period 2.5s fl. 0.3s, ec. 2.2s	850 259	2	White triangular daymark.	
3527.2 <i>D 2146.2</i>	--Rear, 000° from front.	38° 26.2' N 9° 04.0' W	Fl.W. period 2.5s fl. 0.4s, ec. 2.1s	1024 312	2	White triangular daymark.	
SETUBAL:							
3532 <i>D 2150.22</i>	-Beacon No. "2".	38° 27.1' N 8° 58.4' W	Fl.(2)R. period 10s fl. 1s, ec. 1s fl. 1s, ec. 7s	46 14	9	Red round column, quadrangular top; 16.	Radar reflector.
	-RACON		B(-...) period 60s		15		
3540 <i>D 2150.26</i>	-Beacon No. "4".	38° 27.8' N 8° 57.6' W	Fl.R. period 4s fl. 0.5s, ec. 3.5s	46 14	4	Red round column, quadrangular top; 16.	Radar reflector.
3544 <i>D 2150.28</i>	-Beacon No. "5".	38° 29.1' N 8° 55.3' W	Fl.G. period 4s fl. 0.5s, ec. 3.5s	46 14	4	Black round column, quadrangular top.	Radar reflector.
3548 <i>D 2152</i>	-Canal da Sapie Range, front, Algarve Exportador.	38° 31.1' N 8° 53.6' W	Oc.R. period 4s lt. 3s, ec. 1s	49 15	5	Red lantern.	
3552 <i>D 2152.1</i>	--Annunciada, rear, 550 meters 295°12' from front.	38° 31.3' N 8° 54.1' W	Iso.R. period 4s	75 23	5	Red lantern.	
3556 <i>D 2150</i>	-Fote d'Outao, Rio Sado, W. side entrance.	38° 29.2' N 8° 56.0' W	Oc.R. period 6s lt. 4s, ec. 2s	112 34	12	White hexagonal tower; 36.	Reserve light F.R. 5M.
3560 <i>D 2150.4</i>	-Albarquel.	38° 30.6' N 8° 54.7' W	Iso.R. period 2s	52 16	6	Red lantern on S. corner of fort.	
3564 <i>D 2151</i>	-Doca, entrance Range, front.	38° 31.2' N 8° 53.9' W	Iso.Y. period 6s	39 12	22	Tower, red and white bands, white lantern; 33.	
3568 <i>D 2151.1</i>	-- Azedo , rear, 2.8 km. 039°42' from front.	38° 32.3' N 8° 52.7' W	Iso.Y. period 6s	200 61	22	Round tower, red and white bands, red lantern; 102.	Visible 038°18'-041°18'.
3570 <i>D 2158</i>	Pinheiro da Cruz.	38° 15.6' N 8° 46.2' W	Fl.W. period 3s fl. 1s, ec. 2s	220 67	11	Round column, red and white bands.	
SINES:							
3572 <i>D 2160</i>	- Cabo de Sines .	37° 57.6' N 8° 52.8' W	Fl.(2)W. period 15s fl. 0.2s, ec. 3.6s fl. 0.2s, ec. 11s	184 56	26	White round tower, dwelling; 72.	Reserve light range 21M. Obscured 001°-003° and 004°- 007° within 17M.
3582 <i>D 2160.36</i>	--Mole.	37° 57.1' N 8° 52.1' W	Fl.R. period 6s fl. 1.8s, ec. 4.2s		6	Concrete structure, red and white bands; 13.	
3583 <i>D 2160.16</i>	--W. mole.	37° 56.7' N 8° 53.2' W	Fl.W. period 3s fl. 1s, ec. 2s	69 21	12	Truncated tower, red and white bands; 26.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PORTUGAL							
3584 D 2160.4	-Posto "1".	37° 56.4' N 8° 53.2' W	Dir.Iso.W.R.G. period 2s	52 16	W. R. G. 8 6 6	Metal pyramidal tower.	R. 257°-266°, W.-270°, G.-286°.
3587 D 2160.5	Ponta da Gaivota.	37° 51.0' N 8° 47.7' W	L.FI.W. period 7s fl. 2s, ec. 5s	66 20 20 6	13	Round column, red and white stripes; 16.	
3588 D 2160.6	Porto Covo.	37° 50.9' N 9° 47.3' W	FI.R. period 4s fl. 1s, ec. 3s	105 32	5	Round column, red and white stripes; 13.	
3592 D 2161	Portinho do Canal Range, front.	37° 44.1' N 8° 48.0' W	FI.R. period 3s fl. 1s, ec. 2s	16 5	7	Column, red and white stripes.	
3596 D 2161.1	-Rear, 075° from front.	37° 44.2' N 8° 47.9' W	Oc.R. period 3s lt. 2s, ec. 1s	20 6	7	Column, red and white stripes.	
3600 D 2162	Milfontes, Rio Mira, mouth.	37° 43.1' N 8° 47.3' W	FI.W. period 3s fl. 1s, ec. 2s	75 23	10	Tower on dwelling; 16.	
3604 D 2164	Cabo Sardo.	37° 35.8' N 8° 48.9' W	FI.(3)W. period 15s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 8.8s	223 68	23	White square masonry tower on dwellings; 55.	Reserve light range 21M.
3608 D 2165	Porto das Barcas Entrance Range, front.	37° 33.3' N 9° 47.5' W	FI.G. period 3s fl. 1s, ec. 2s	131 40	7	Column, red and white bands; 26.	
3612 D 2165.1	-Rear, about 157 meters E. from front.	37° 33.0' N 8° 47.3' W	Oc.G. period 3s lt. 2s, ec. 1s	174 53	7	Column, red and white bands; 46.	
3616 D 2168	Cabo De Sao Vicente.	37° 01.3' N 8° 59.7' W	FI.W. period 5s fl. 0.1s, ec. 4.9s	282 86	32	White round masonry tower; 92.	Aeromarine light. Nautophone: 2 bl. ev. 30s (bl. 5s, si. 5s, bl. 5s, si. 15s).
3620 D 2170	Ponta de Sagres.	36° 59.6' N 8° 56.9' W	Iso.R. period 2s	174 53	11	White square masonry tower on dwelling; 43.	
3622 D 2171	Baleeira, on mole.	37° 00.6' N 8° 55.4' W	FI.W.R. period 4s fl. 1.1s, ec. 3s	43 13	W. R. 14 11	White rectangular tower; 20.	R. 355°-254°, W.-355°.
3623 D 2172.3	Posto.	37° 04.2' N 8° 46.4' W	L.FI.W. period 5s fl. 2s, ec. 3s	52 16	11	On building.	
BAIA DE LAGOS:							
3624 D 2174	-Ponte da Piedade.	37° 04.7' N 8° 40.1' W	FI.W. period 7s fl. 1s, ec. 6s	167 51	20	Yellow square masonry tower on dwelling; 16.	Reserve light range 10M.
3628 D 2175	-Lagos, W. mole, head.	37° 05.8' N 8° 39.9' W	FI.R. period 6s fl. 1s, ec. 5s		5	White rectangular tower, red bands; 23.	
3632 D 2176	--E. mole, head.	37° 05.8' N 8° 39.9' W	Mo.(A)G. period 10s fl. 0.5s, ec. 1s fl. 2.5s, ec. 6s		6	White rectangular tower, green bands; 20.	
3640 D 2177.1	-Alvor.	37° 08.0' N 8° 37.0' W	L.FI.R. period 6s fl. 2s, ec. 4s	105 32	7	Round column, red and white bands; 13.	
RIBEIRA DE ARADE (PORTIMAO):							
3644 D 2178	-Ponta do Altar, entrance, E. side.	37° 06.3' N 8° 31.1' W	L.FI.W. period 5s fl. 2s, ec. 3s	105 32	16	White tower and dwelling; 33.	Visible 290°-170°. Reserve light F.R. 6M.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PORTUGAL							
3648 D 2179	-W. mole, extremity.	37° 06.4' N 8° 31.7' W	Fl.R. period 5s fl. 1s, ec. 4s	33 10	7	White truncated tower, red bands; 23.	
3652 D 2179.2	-E. mole, extremity.	37° 06.4' N 8° 31.5' W	Fl.G. period 5s fl. 1s, ec. 4s	33 10	7	White truncated tower, two green bands; 23.	
3656 D 2181	-Entrance Range, front, Ferragudo.	37° 07.3' N 8° 31.2' W	Oc.R. period 5s lt. 3s, ec. 2s	62 19	8	White truncated column with three red stripes.	Range lights moved as channel alters.
3660 D 2181.1	--Rear, 90 meters 020°54' from front, adjacent to Ferragudo Church.	37° 07.4' N 8° 31.3' W	Oc.R. period 7s lt. 4.5s, ec. 2.5s	108 33	8	White truncated column, six red stripes.	
3684 D 2192	Alfanzina.	37° 05.1' N 8° 26.5' W	Fl.(2)W. period 15s fl. 0.2s, ec. 3.6s fl. 0.2s, ec. 11s	184 56	29	White square masonry tower, dwelling; 75.	Reserve light range 22M.
3688 D 2194	Armacao de Pera, fort, S. corner.	37° 06.0' N 8° 21.6' W	Oc.R. period 5s lt. 4s, ec. 1s	82 25	6	Building.	
3692 D 2196	Albufeira, near Ponta da Baleira.	37° 04.7' N 8° 15.7' W	Oc.W. period 6s lt. 4s, ec. 2s	102 31	11	White framework tower, red bands; 20.	Emergency light F.R. 3M.
3696 D 2196.2	-E. side of bay.	37° 05.2' N 8° 14.7' W	Iso.R. period 3s	72 22	8	White truncated conical tower, red bands.	
3700 D 2197	Olhos de Agua.	37° 05.3' N 8° 11.3' W	L.Fl.W. period 5s fl. 2s, ec. 3s	98 30	7	Column, red and white bands.	Emergency light F.W. 4M.
3708 D 2197.3	Marina de Vilamoura, W. mole.	37° 04.1' N 8° 07.4' W	Fl.R. period 4s fl. 1s, ec. 3s	46 14	5	Truncated concrete tower, on point of Mole; 23.	
3712 D 2197.4	-E. mole.	37° 04.1' N 8° 07.3' W	Fl.G. period 4s fl. 1s, ec. 3s	46 14	5	Truncated tower, green and white bands.	
3716 D 2197.2	Vilamoura.	37° 04.4' N 8° 07.3' W	Fl.W. period 10s fl. 0.7s, ec. 9.3s	59 18	19	Metal tower on marina control tower; 52.	
3724 D 2206	Cabo de Santa Maria.	36° 58.4' N 7° 51.8' W	Fl.(4)W. period 17s fl. 0.2s, ec. 2.6s fl. 0.2s, ec. 2.6s fl. 0.2s, ec. 2.6s fl. 0.2s, ec. 8.4s	164 50	25	White round tower, dwelling attached; 151.	Reserve light range 19M.
CANAL DE OLHAO:							
-Barra Faro-Olhao:							
3728 D 2208	--W. mole, head.	36° 57.7' N 7° 52.2' W	Fl.R. period 4s fl. 1s, ec. 3s	32 10	6	White truncated tower; 16.	
3732 D 2209	--E. mole, head.	36° 57.7' N 7° 52.1' W	Fl.G. period 4s fl. 1s, ec. 3s	32 10	6	Round concrete column.	
3736 D 2206.1	--Barra Nova, E. mole.	36° 58.1' N 7° 51.9' W	Oc.W. period 4s lt. 3s, ec. 1s	29 9	6	Round concrete column, red and white bands.	In line with Cabo de Santa Maria (021°) gives 2nd range.
-Ilha da Barreta:							
3740 D 2221	--Range, front, Golada.	36° 58.1' N 7° 52.2' W	L.Fl.R. period 5s fl. 2s, ec. 3s	23 7	6	Round column, red and white, on concrete base; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PORTUGAL							
3744 <i>D 2221.1</i>	--Rear, 039°30' from front.	36° 57.9' N 7° 52.7' W	Oc.R. period 5s lt. 4s, ec. 1s	30 9	7	Round column, red and white bands, on concrete; 23.	
3748 <i>D 2211</i>	-Ilha da Culatra, breakwater.	36° 58.4' N 7° 52.0' W	Oc.G. period 5s lt. 4s, ec. 1s	23 7	3	Metal column on JAPSA building; 20.	
3752 <i>D 2212</i>	-Mar Santo.	36° 58.4' N 7° 52.0' W	Oc.R. period 5s lt. 4s, ec. 1s	33 10	5	Round tower, white and red bands.	In line 098° with Cabu de Santa Moria light.
3756 <i>D 2222</i>	-Boneco.	36° 58.6' N 7° 51.9' W	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7	6	Green metal column; 16.	
3760 <i>D 2218</i>	--Ponte de Carvao, head.	36° 59.2' N 7° 51.2' W	Fl.W. period 5.5s fl. 0.5s, ec. 5s	23 7	6	Green column; 13.	Moved as channel changes.
3761 <i>D 2219</i>	-Ponte-Cais.	36° 59.7' N 7° 50.6' W	Oc.G. period 4s lt. 3s, ec. 1s	13 4	5	Green metal column.	
3764 <i>D 2225.3</i>	-W. mole.	37° 01.3' N 7° 50.0' W	Fl.R. period 6s fl. 1s, ec. 5s	16 5	6	Octagonal metal tower, red and white stripes.	
3772 <i>D 2230.1</i>	-Igreja.	37° 03.3' N 7° 44.8' W	Oc.R. period 3s lt. 2.5s, ec. 0.5s	102 31	5	Platform of bell tower; 56.	
3778 <i>D 2232.8</i>	Barra.	37° 03.5' N 7° 43.0' W	Fl.W. period 8s fl. 1s, ec. 7s	23 7	7	Column, red and white bands; 16.	
TAVIRA:							
3780 <i>D 2234</i>	-Armacao Range, front.	37° 07.1' N 7° 37.3' W	Fl.R. period 3s fl. 1s, ec. 2s	23 7	4	Post, red and white bands; 16.	
3784 <i>D 2234.1</i>	--Rear, about 80 meters SSE. of front.	37° 07.2' N 7° 37.3' W	Iso.R. period 6s	33 10	5	Post, red and white bands; 16.	
3788 <i>D 2238</i>	-Praia Range, front.	37° 07.8' N 7° 36.2' W	F.W.	23 7	4	Column; 23.	
3792 <i>D 2238.1</i>	--Almargem, rear, about 71 meters NW. of front.	37° 07.8' N 7° 36.2' W	F.W.	26 8	4	Column; 23.	Indicates 2nd range of Barro Nova de Cochicho.
3796 <i>D 2235</i>	-W. mole, head.	37° 06.8' N 7° 36.8' W	Fl.R. period 2.5s fl. 0.5s, ec. 2s	26 8	7	Truncated column, red and white bands; 13.	
3797 <i>D 2235.2</i>	-E. mole, head.	37° 06.9' N 7° 36.9' W	Fl.G. period 2.5s fl. 0.5s, ec. 2s	20 6	6	Truncated column, green and white bands; 13.	
RIO GUADIANA:							
3800 <i>D 2249</i>	-Mole, W. head.	37° 09.5' N 7° 24.0' W	Fl.R. period 5s fl. 0.5s, ec. 4.5s		4	Metal column, red and white stripes; 26.	
3804 <i>D 2250</i>	-E. mole, head.	37° 09.7' N 7° 23.7' W	Fl.G. period 3s fl. 0.3s, ec. 2.7s		4	Tower.	
3808	-Buoy "1".	37° 09.1' N 7° 23.4' W	Fl.(3)G. period 6s			STARBOARD (A) G, conical.	
3816 <i>D 2246</i>	-Vila Real de Santo Antonio.	37° 11.2' N 7° 24.9' W	Fl.W. period 6.5s fl. 0.2s, ec. 6.3s	171 52	26	White round tower, narrow black bands, two-story dwelling; 151.	Reserve light range 22M.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-SOUTHWEST COAST							
RIO GUADIANA:							
3820 D 2305	-Baluarte.	37° 12.8' N 7° 24.6' W	Fl.G. period 3s fl. 0.5s, ec. 2.5s	10 3	3	Black column; 20.	
3828 D 2312	-Rompido de Cartaya.	37° 12.9' N 7° 07.6' W	Fl.(2)W. period 10s fl. 0.5s, ec. 2.8s fl. 0.5s, ec. 6.2s	140 43	24	Round tower, white and black bands; 96.	
3836 D 2319	Huelva Terminal Buoy.	37° 04.8' N 6° 55.6' W	Fl.(4)Y. period 20s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 10.5s			SPECIAL Y, superbuoy, topmark.	Siren: Mo.(E) ev. 30s.
RIO ODIEL (HUELVA):							
3840	-Approach buoy.	37° 05.6' N 6° 49.0' W	Q.(9)W. period 15s			W. CARDINAL YBY, topmark.	
3844 D 2320	-Punta del Picacho.	37° 08.2' N 6° 49.5' W	Fl.(2+4)W. period 30s fl. 0.2s, ec. 2.9s fl. 0.2s, ec. 8.6s fl. 0.2s, ec. 2.9s fl. 0.2s, ec. 2.9s fl. 0.2s, ec. 2.9s fl. 0.2s, ec. 8.6s	171 52	25	White tower on red house; 82.	
3848 D 2324	-Canal del Padre Santo Range, front.	37° 08.5' N 6° 50.6' W	Q.W.	167 51	8	Red and white checkered metal tower; 33.	
3852 D 2324.1	--Rear, 158 meters 339°11' from front.	37° 08.6' N 6° 50.6' W	Fl.R. period 2s	187 57	8	Red and white checkered metal tower; 36.	
3861 D 2321	-Breakwater, S. head.	37° 06.5' N 6° 49.9' W	Fl.(3+1)W.R. period 20s fl. 0.8s, ec. 2.2s fl. 0.8s, ec. 2.2s fl. 0.8s, ec. 6.2s fl. 0.8s, ec. 6.2s	102 31	W. 12 R. 9	White round tower, red bands; 89.	R. 100°-125°, obsc.-165°, W.-100°.
-RACON							
			K(- • -) period 72s				
3862 D 2315	-Punta Umbria, breakwater, head.	37° 09.8' N 6° 56.8' W	V.Q.(6)+L.Fl.W. period 10s	33 10	5	S. CARDINAL YB, pillar; 13.	
3863 D 2345	-La Higuera.	37° 00.6' N 6° 34.1' W	Fl.(3)W. period 20s fl. 0.5s, ec. 2.8s fl. 0.5s, ec. 2.8s fl. 0.5s, ec. 12.9s	154 47	20	Masonry tower; 79.	
RIO GUADALQUIVIR (SANLUCAR DE BARRAMEDA):							
3864 D 2348.5	-New Canal Range, front.	36° 48.0' N 6° 20.0' W	Q.W.	95 29	10	White structure, red triangular daymark, point up; 72.	
3868 D 2348.51	--Rear, 1081 meters 068°56' from front.	36° 48.0' N 6° 19.6' W	Iso.W. period 4s	203 62	10	White structure, red triangular daymark, point down; 98.	
3872 D 2349	-Bonanza, breakwater, S. head.	36° 48.2' N 6° 20.2' W	Fl.(2+1)G. period 21s	23 7	5	Green column, red band; 6.	
3876 D 2349.1	--Breakwater, N. head.	36° 48.3' N 6° 20.3' W	Fl.G. period 5s fl. 0.5s, ec. 4.5s	23 7	5	Green column; 6.	
Lights in Rio Guadalquivir not in List of Lights.							

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-SOUTHWEST COAST							
3878	-Buoy "1".	36° 45.8' N 6° 27.0' W	Fl.W. period 10s			SAFE WATER RW pillar, ball topmark.	
	-RACON		M(- -)		10		3 & 10 cm.
3880 D 2351	-Chipiona.	36° 44.3' N 6° 26.4' W	Fl.W. period 10s fl. 0.3s, ec. 9.7s	226 69	25	Yellow conical tower; 205.	
3882 D 2350.4	-Bajo Salmedina.	36° 44.3' N 6° 28.6' W	Q.(9)W. period 15s	33 10	5	W. CARDINAL YBY, round tower, topmark.	
3884 D 2352	--Breakwater, head.	36° 45.0' N 6° 25.7' W	Fl.(2)G. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	20 6	5	Green round tower; 16.	
	ROTA:						
3900 D 2355	-Rota AVIATION LIGHT.	36° 38.2' N 6° 20.8' W	Al.Fl.W.G. period 9s	262 80	17	Red and white checkered water tank; 162.	Tanks, control tower, radio masts marked by F.R. obstruction lights.
3908 D 2355.2	-Rota Faro.	36° 37.1' N 6° 21.4' W	Oc.W. period 4s	112 34	13	White round tower, red band; 92.	Radiobeacon 1.3 miles WNW.
	-Rota Fishing Harbor:						
3912 D 2355.4	--Mole, head.	36° 36.9' N 6° 21.0' W	Fl.(3)R. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	33 10	9	Red metal tower; 10.	
3914 D 2355.5	---Contradique.	36° 36.9' N 6° 21.1' W	F.G.			Green metal post.	
	-Naval Base:						
3920 D 2359	--Entrance Range, front.	36° 37.6' N 6° 19.7' W	Q.W.	49 15	9	Orange steel frame tower, black diamond daymark, white background; 30.	Visible 335°30'-355°30'.
3924 D 2359.1	---Rear, about 272 meters 345°30' from front.	36° 37.8' N 6° 19.7' W	Oc.W. period 3s	89 27	11	Steel frame tower painted orange, black ball daymark on white background; 50.	Visible 335°30'-355°30'.
3928 D 2357	--SW. breakwater.	36° 36.7' N 6° 19.5' W	Oc.(2)R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	56 17	4	Aluminum steel pipe ladder and platform; 13.	
3932 D 2358	--SE. breakwater.	36° 36.9' N 6° 19.3' W	Q.(3)G. period 7s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 4.5s	45 14	6	Aluminum steel pipe, ladder and platform.	
	CADIZ:						
3940 D 2362	-Castillo de San Sebastian.	36° 31.7' N 6° 19.0' W	Fl.(2)W. period 10s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 7.2s	128 39	25	Metal tower; 121.	Obscured over harbor by buildings. Unintensified 085°-121°. Nautophone: Mo.(N) ev. 20s (bl. 3s, si. 1s, bl. 1s, si. 15s).
	-Malecon de San Felipe:						
3958	-Mole levante, head.	36° 32.7' N 6° 16.8' W	Fl.(4)G. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5s	39 12	3	STARBOARD (A) G, beacon.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-SOUTHWEST COAST							
3960 D 2367	-Basin Malecon de San Felipe, head.	36° 32.6' N 6° 16.7' W	Fl.G. period 3s fl. 0.3s, ec. 2.7s	36 11	5	Square cement tower; 14.	
3968 D 2368	--Malecon de Levante, head.	36° 32.5' N 6° 16.5' W	Fl.R. period 2s fl. 0.3s, ec. 1.7s	39 12	5	Red metal mast; 16.	
3972 D 2375.4	---Gas-freeing tanker station, Dolphin "1".	36° 32.2' N 6° 16.1' W	Fl.(3)G. period 10s fl. 1s, ec. 0.5s fl. 1s, ec. 0.5s fl. 1s, ec. 6s	16 5	3	Round green post; 7.	
3977 D 2371.3	--Muelle Reina Sofia.	36° 32.4' N 6° 17.1' W	Oc.G. period 2s lt. 1.5s, ec. 0.5s	20 6	2	Green post; 7.	
3980 D 2373	--Muelle Ciudad.	36° 32.0' N 6° 17.4' W	Oc.W. period 5s lt. 3s, ec. 2s	92 28	3	Tower, red triangular daymark; 98.	Light in line with city hall clock tower 224° marks basin entrance.
3984 D 2372	--Muelle No. "2", N. corner.	36° 32.2' N 6° 17.0' W	Oc.R. period 3s lt. 2.5s, ec. 0.5s	20 6	2	White tower, red lantern; 13.	
3988 D 2373.4	--Muelle No. "5".	36° 32.0' N 6° 16.0' W	F.G.				
3992 D 2374	--Puerto Pesquero Muelle de Poniente, head.	36° 32.1' N 6° 16.8' W	Q.G.	19 6	3	Green tower; 12.	
3996 D 2375	---Muelle de Levante, head.	36° 32.0' N 6° 16.8' W	Q.R.	19 6	3	Red tower; 12.	
3998 D 2375.3	-Cabezuela, mole, head.	36° 31.8' N 6° 15.4' W	Q.(2)R. period 8s	29 9	2	Red pyramidal tower; 10.	
3999 D 2375.35	--NW. wharf corner.	36° 31.5' N 6° 15.5' W	Fl.(2)R. period 9s fl. 0.5s, ec. 1s fl. 0.5s, ec. 7s	23 7	2	Red post.	
4008 D 2379	-Base de Puntales, outer mole, head.	36° 30.5' N 6° 15.5' W	Fl.(4)G. period 10s	23 7	4	Green post.	
	-Zona Franca:						
4012 D 2377	--Entrance Range, front.	36° 30.2' N 6° 15.7' W	Iso.W. period 2s	39 12	3	Wooden post painted aluminum, black diamond daymark; 30.	Visible 180°-240°.
4016 D 2377.1	---Rear, 80 meters 210°30' from front.	36° 30.2' N 6° 15.7' W	Oc.W. period 4s lt. 3s, ec. 1s	49 15	3	Wooden post, painted aluminum, black diamond daymark; 39.	Visible 180°-240°.
4020 D 2377.4	--Muelle de Poniente, on NE. corner.	36° 30.4' N 6° 15.6' W	Fl.G. period 2s fl. 0.3s, ec. 1.7s	16 5	2	Green post; 7.	
4024 D 2378	--Muelle de Ribera.	36° 30.2' N 6° 15.6' W	Fl.R. period 3s fl. 0.3s, ec. 2.7s	16 5	3	Red post; 10.	
4032 D 2381	-La Clica, outer berth.	36° 30.0' N 6° 11.4' W	Fl.(3)G. period 9s		2	White tower, green top; 10.	
4036 D 2381.2	--Inner berth.	36° 29.9' N 6° 11.3' W	Fl.(4)G. period 10s		2	White tower, green top; 10.	
4037 D 2382	-Puerto Deportivo Sherry, S. breakwater, head.	36° 34.7' N 6° 15.2' W	Oc.R. period 4s lt. 3s, ec. 1s		4		
4038 D 2382.3	--N. entrance.	36° 34.8' N 6° 15.1' W	Oc.G. period 5s lt. 3.5s, ec. 1.5s		3		
4040 D 2384	-El Puerto de Santa Maria Range, front.	36° 35.9' N 6° 13.3' W	Q.G.	56 17	4	Aluminum framework tower; 46.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-SOUTHWEST COAST							
4044 <i>D 2384.1</i>	--Rear, 253 meters 040° from front.	36° 36.0' N 6° 13.2' W	Iso.G. period 4s	69 21	4	Aluminum framework tower; 59	
4048 <i>D 2383</i>	--Escollera de Levante, E. head.	36° 34.7' N 6° 14.3' W	Fl.(2)G. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	33 10	3	Green metal tower; 13.	
4049 <i>D 2385.2</i>	--W. head.	36° 34.4' N 6° 14.9' W	Fl.R. period 5s fl. 0.5s, ec. 4.5s	36 11	3	Red metal tower; 13.	
4050 <i>D 2383.4</i>	--E. breakwater.	36° 34.5' N 6° 14.3' W	Q.(9)W. period 15s		3	Black and yellow metal tower; 13.	
4052 <i>D 2385</i>	--Channel, W. side.	36° 35.2' N 6° 14.0' W	Q.R.	20 6	2	Red tower; 10.	
4056 <i>D 2385.6</i>	--Muelle Pesquero, SW. corner.	36° 35.6' N 6° 13.6' W	Oc.R. period 3s lt. 2s, ec. 1s	20 6	2	Red tower; 10.	
SANCTI PETRI:							
4060 <i>D 2388</i>	-Castillo de Sancti Petri, Islet, N. head.	36° 22.6' N 6° 13.2' W	Fl.W. period 3s fl. 0.7s, ec. 2.3s	66 20	9	Round tower; 52.	
-Punta de las Piedras:							
4064 <i>D 2398</i>	--Coto San Jose Range, front.	36° 22.7' N 6° 12.2' W	Fl.W. period 5s fl. 0.5s, ec. 4.5s	46 14	6	Framework tower; 33.	
4068 <i>D 2398.1</i>	---Rear, 50 meters 050° from front.	36° 23.0' N 6° 12.1' W	Oc.(2)W. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	59 18	6	Framework tower; 20.	
4072 <i>D 2404</i>	--Bateria de Urrutia Range, front, about 1.5 km. 013° from Castillo de Sancti Petri light.	36° 23.4' N 6° 13.0' W	Fl.W. period 5s fl. 0.5s, ec. 4.5s	43 13	6	Framework tower; 20.	
4076 <i>D 2404.1</i>	---Rear, 60 meters 346°30' from front.	36° 23.5' N 6° 13.0' W	Oc.(2)W. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	75 23	6	Framework tower; 33.	
4077 <i>D 2405</i>	Cabo Roche.	36° 17.8' N 6° 08.3' W	Fl.(4)W. period 24s fl. 0.6s, ec. 3.4s fl. 0.6s, ec. 3.4s fl. 0.6s, ec. 3.4s fl. 0.6s, ec. 11s	148 45	20	Quadrangular tower; 66.	
4078 <i>D 2405.4</i>	Conil, breakwater, head.	36° 17.7' N 6° 08.1' W	Fl.R. period 6s fl. 1s, ec. 5s	36 11	5	Red post; 20.	
4080 <i>D 2406</i>	Cabo Trafalgar, AVIATION LIGHT.	36° 10.9' N 6° 02.1' W	Fl.(2+1)W. period 15s fl. 0.4s, ec. 1.8s fl. 0.4s, ec. 6s fl. 0.4s, ec. 6s	167 51	22	White round tower; 112.	
4084 <i>D 2408</i>	Barbate, about 1.3 km. NW. of mouth of Barbate Rio.	36° 11.3' N 5° 55.3' W	Fl.(2)W.R. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	72 22	W. 10 R. 7	White round masonry tower, red bands; 59.	W. 281°-015°, R.-095°.
4088 <i>D 2409</i>	-Digue de Poniente, head.	36° 10.8' N 5° 55.5' W	Fl.(2)R. period 6s fl. 0.3s, ec. 1s fl. 0.3s, ec. 4.4s	39 12	5	White truncated conical tower, red bands; 7.	
4092 <i>D 2410</i>	-Contradique, head.	36° 11.0' N 5° 55.8' W	Fl.G. period 3s fl. 0.4s, ec. 2.6s	26 8	2	Masonry tower; 7.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-SOUTHWEST COAST							
4096 <i>D 2409.2</i>	-La Albufera Entrance Range, front.	36° 11.0' N 5° 55.9' W	Q.W.	10 3	1	White post; 10.	Visible 280°30'-310°30'.
4100 <i>D 2409.21</i>	--Rear, 385 meters 297°30' from front.	36° 11.0' N 5° 55.9' W	Q.W.	26 8	1	White post; red bands, 20.	Visible 280°30'-310°30'.
STRAIT OF GIBRALTAR-NORTH SIDE							
4104 <i>D 2411</i>	Rio Barbate Range, front, 2 km. 113°30' from Barbate.	36° 10.9' N 5° 54.3' W	Fl.W. period 3s	16 5	3	Triangular wooden post on masonry pyramid; 7.	
4108 <i>D 2411.1</i>	-Rear, 70 meters 058°30' from front.	36° 10.9' N 5° 54.3' W	Fl.W. period 3s	26 8	3	Wooden post, two platforms; 20.	
4110 <i>D 2411.5</i>	Punta de Gracia.	36° 05.4' N 5° 48.7' W	Oc.(2)W. period 5s	246 75	13	Stone tower; 66.	
4112 <i>D 2412</i>	Punta Paloma.	36° 04.0' N 5° 43.1' W	Oc.W.R. period 5s lt. 4s, ec. 1s	148 45	W. 10 R. 7	Two-story dwelling; 16.	W. 010°-340°, R.-010°.
4116 <i>D 2414</i>	Tarifa.	36° 00.1' N 5° 36.5' W	Fl.(3)W.R. period 10s	134 41	W. 26 R. 18	White tower; 107.	W. 113°-089°, R.-113°. Siren: 3 bl. ev. 60s (bl. 5s, si. 3s, bl. 5s, si. 3s, bl. 5s, si. 39s). Radiobeacon.
RACON C(— • — •)							
4118 <i>D 2415</i>	-Lado East.	36° 00.3' N 5° 36.3' W	Fl.R. period 5s	39 12	3	White tower, red top; 16.	
4120 <i>D 2418</i>	Puerto de Tarifa, W. mole.	36° 00.6' N 5° 36.1' W	Fl.(2)R. period 6s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 4.5s	23 7	1	Hut; 13.	Partially obscured by E. mole.
4122 <i>D 2418.3</i>	-Inner spur, head.	36° 00.7' N 5° 36.1' W	Fl.(2)G. period 6s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 4.5s	20 6	1	Green column; 10.	
4124 <i>D 2416</i>	-E. mole, head.	36° 00.5' N 5° 36.1' W	Fl.G. period 5s	36 11	5	Green metal tower; 16.	
4128 <i>D 2420</i>	Punta Carnero.	36° 04.7' N 5° 25.5' W	Fl.(4)W.R. period 20s fl. 1.5s, ec. 2s fl. 1.5s, ec. 2s fl. 1.5s, ec. 2s fl. 1.5s, ec. 8s	138 42	W. 18 R. 9	Yellow round tower, green lantern, aluminum dome; 63.	R. 325°-018°, W.-325°. Siren: Mo.(K) ev. 30s (bl. 3s, si. 1s, bl. 1s, si. 1s, bl. 3s, si. 21s).
For lights on the south side of the Strait, see Ceuta, Morocco.							
ALGECIRAS							
4131 <i>D 2423</i>	-Darsena del Saladillo, S. breakwater, N. head.	36° 07.1' N 5° 26.1' W	Q.(3)R. period 9s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 6.5s	23 7	3	Red and white tower; 20.	
4132 <i>D 2424.6</i>	--N. breakwater, S. head.	36° 07.1' N 5° 26.2' W	Q.(4)G. period 11s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 7.5s	6 2	1	Green round tower; 3.	Radar reflector.
4136 <i>D 2425</i>	-N. jetty, head.	36° 08.6' N 5° 25.8' W	Fl.(2)R. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	36 11	8	Red and white round tower; 26.	Radar reflector.
4142 <i>D 2425.3</i>	-Naval mole, N. head.	36° 08.8' N 5° 26.1' W	Fl.(2)G. period 6s	13 4	3	Green post; 13.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
STRAIT OF GIBALTAR-NORTH SIDE							
4143 D 2425.4	--SE. corner.	36° 08.1' N 5° 26.2' W	Fl.(2)G. period 7s	23 7	3	Green and white column; 13.	
4145 D 2425.66	-Darsena Pesquera.	36° 08.2' N 5° 26.5' W	Fl.(2)G. period 10s	23 7	4	Green round tower; 13.	
4147 D 2425.67	-Muelle de la Galera, pier "2".	36° 07.9' N 5° 26.2' W	Q.(2+1)G. period 10s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 4s fl. 0.5s, ec. 4s	16 5	2	Green post, red bands; 7.	
4149 D 2425.7	-Muelle de la Galerilla, pier "1".	36° 08.0' N 5° 26.2' W	Q.G.	16 5	2	Green post; 7.	
4151 D 2425.74	--Pier "3".	36° 07.9' N 5° 26.2' W	Q.G.	16 5	2	Green post; 7.	
GIBALTAR (U.K.):							
4153 D 2426.3	--Muelle de Isle Verde.	36° 07.6' N 5° 26.5' W	Fl.(3) R. period 5s fl. 0.7s, ec. 0.7s fl. 0.7s, ec. 0.7s fl. 0.7s, ec. 1.5s	20 6	2	Red round post; 10.	
4166 D 2430	-Acerinox, W. jetty, head.	36° 10.6' N 5° 25.3' W	F.R.	23 7	4	Red and white pyramidal tower; 10.	FR and FG lights mark pier 200m NE.
4167 D 2430.2	--E. jetty, head.	36° 10.5' N 5° 25.1' W	F.G.	26 8	4	White pyramidal tower; 10.	
4167.2 D 2431	Coal Terminal, W. head.	36° 10.4' N 5° 25.2' W	Fl.(2)G. period 10s	30 9	4	Green post; 16.	
4167.3 D 2431.2	-E. corner.	36° 10.5' N 5° 24.9' W	Fl.R. period 7s	30 9	2	Red post, white bands; 16.	
4167.4	-Jetty, head.	36° 10.7' N 5° 23.5' W	F.G.	7 2	2	Green and white post.	
4168 D 2432	-Oil pipeline directional indicator.	36° 10.9' N 5° 24.5' W	2 Q.Y. (vert.)	49 15	3	SPECIAL Y, post, topmark.	1 meter apart.
4172	-"CEPSA" TERMINAL LANBY.	36° 09.9' N 5° 24.9' W	Fl.(3)Y. period 15s			SPECIAL Y, topmark.	Siren: Mo.(U) ev. 30s.
4176 D 2434	--At junction of T-head.	36° 10.6' N 5° 23.9' W	Q.(4)W. period 14s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 10.5s	39 12	10	White post, red bands; 30.	Visible 305°-105°. Two lighted ranges in line 083°30' shown from shore eastward to assist in docking.
4180 D 2434.4	--Extremity of W. arm.	36° 10.6' N 5° 24.1' W	Fl.G. period 3s	39 12	4	White post, red bands; 30.	
4184 D 2434.2	--Extremity of E. arm.	36° 10.6' N 5° 23.6' W	Fl.(4)R. period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	39 12	4	White post, red bands; 30.	
4188 D 2435	-Primary Range, front.	36° 10.5' N 5° 22.9' W	Iso.G. period 2s			White post.	Lead in, 400 meters off pier. Radar reflector.
4192 D 2435.1	--Rear, 125 meters 083°30' from front.	36° 10.5' N 5° 22.7' W	Oc.G. period 4s			White post.	Radar reflector.
4196 D 2436	-Secondary Range, front.	36° 10.7' N 5° 22.7' W	Iso.R. period 2s			White post.	Radar reflector.
4200 D 2436.1	--Rear, 150 meters 083°30' from front.	36° 10.7' N 5° 22.8' W	Oc.R. period 4s			White post.	Radar reflector.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
STRAIT OF GIBRALTAR-NORTH SIDE							
4204 D 2436.6	-Atragues de Aljibes, W. dolphin.	36° 10.6' N 5° 23.4' W	Fl.G. period 5s fl. 0.4s, ec. 4.6s	19 6	2	Metal column; 3.	
4208 D 2436.7	--E. dolphin.	36° 10.6' N 5° 23.1' W	Q.(2)R. period 8s fl. 0.4s, ec. 0.4s fl. 0.4s, ec. 6.8s	19 6	2	Metal column; 3.	
4212 D 2437	-Pantalan de San Felipe.	36° 09.5' N 5° 21.7' W	Fl.R. period 3s fl. 1s, ec. 2s	23 7	2	Red and white column; 13.	
4214 D 2437.2	-Muelle de San Felipe, spur.	36° 09.6' N 5° 21.7' W	Q.R.	23 7	2	Red column; 16.	
4214.5 D 2436.75	-Muelle de Crinavis.	36° 10.2' N 5° 22.9' W	Q(3) G. period 7s fl. 0.3s, ec. 0.7s fl. 0.3s, ec. 0.7s fl. 0.3s, ec. 4.7s	20 6	2	Green column; 10.	
4214.7 D 2436.78	--New esplanade, elbow.	36° 09.9' N 5° 22.4' W	Q.G.		3	Green post.	
4216 D 2436.8	-Mole de Abrigo de La Lines, at far end.	36° 09.5' N 5° 22.0' W	Fl.(2)G. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	26 8	4	White and green round tower; 13.	
4220 D 2438	-Europa Point.	36° 06.7' N 5° 20.6' W	Iso.W. period 10s	161 49	19	White round tower, red band; 61.	Visible 197°-042°, 067°-125°. Horn: 1 bl. ev. 20s.
			Oc.R. period 10s lt. 5.8s, ec. 4.2s		15		Visible 042°-067°.
			F.R.	144 44	15		Visible 042°-067°.
4224 D 2442	-S. Mole, "A" head.	36° 08.1' N 5° 21.8' W	Fl.W. period 2s fl. 0.1s, ec. 1.9s	60 18	15	White round tower; 57.	Traffic signals. Horn: 1 bl. ev. 10s (bl. 2s, si. 8s).
4228 D 2445	-Detached mole, "B" head.	36° 08.2' N 5° 21.8' W	Q.R.	29 9	5	Square concrete tower on piles; 37.	
4232 D 2446	--"C" head.	36° 08.6' N 5° 22.0' W	Q.G.	33 10	5	Square concrete tower on piles; 37.	
4236 D 2448	-N. Mole, "D" head.	36° 08.7' N 5° 21.9' W	Q.R.	60 18	5	Round tower; 57.	Storm and traffic signals.
4240 D 2449.2	--"E" head.	36° 09.0' N 5° 21.9' W	F.R.	92 28	5	Tower.	
4242 D 2451.5	-New camp jetty.	36° 08.4' N 5° 21.5' W	2 F.G. (vert.)			Mast.	
4244 D 2450.7	-Coaling Island.	36° 08.2' N 5° 21.4' W	2 F.R. (vert.)	16 5			
4246 D 2451	-Queensway quay entrance.	36° 08.0' N 5° 21.4' W	2 F.R. (vert.)				
4248 D 2451.2	-Ordnance wharf.	36° 08.1' N 5° 21.4' W	2 F.G. (vert.)	16 5			
4256 D 2456	-AVIATION LIGHT.	36° 09.0' N 5° 20.0' W	Mo.(GB)R. period 10s	1329 405	30		

Section 4

Mediterranean Coast of Spain Including Balearic Islands

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-MEDITERRANEAN SEA							
4266 <i>E 0012</i>	Punta Carbonera.	36° 14.7' N 5° 18.0' W	Oc.W. period 4s lt. 3s, ec. 1s	128 39	14	White tower; 46.	
4268 <i>E 0018</i>	La Duquesa, Marina de Manilva, E. dike, head.	36° 21.2' N 5° 13.7' W	Fl.(2)G. period 7s	26 8	5	Green truncated tower; 13.	F.R. near fueling station.
4272 <i>E 0018.3</i>	-Dike, N. point.	36° 21.4' N 5° 13.6' W	Fl.(3)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	22 7	5	White truncated tower, black and yellow bands; 13.	
4276 <i>E 0018.4</i>	-Breakwater, head.	36° 21.2' N 5° 13.7' W	Fl.(2)R. period 7s	19 6	3	Red truncated tower; 13.	
4280 <i>E 0020</i>	Punta de la Doncella.	36° 25.1' N 5° 09.2' W	Fl.(1+2)W. period 15s fl. 0.4s, ec. 6s fl. 0.3s, ec. 2s fl. 0.3s, ec. 6s	102 31	18	Black octagonal tower, gray lantern and cupola, white dwelling; 69.	
4282 <i>E 0022</i>	Estepona, Dique de Abrigo, extension, head.	36° 24.8' N 5° 09.4' W	Q.(6)+L.Fl.W. period 15s	26 8	5	S. CARDINAL YB, tower; 13.	
4284 <i>E 0022.2</i>	Estepona, Dique de Levante, 140 meters from head.	36° 24.8' N 5° 09.4' W	Fl.G. period 5s	23 7	5	Green metal mast; 13.	
All lights under Spanish control are lighted a quarter of an hour after sunset and extinguished a quarter of an hour before sunrise.							
4288 <i>E 0024</i>	-Dique de Poniente.	36° 24.9' N 5° 09.4' W	Fl.(2)R. period 7s	26 8	3	White truncated tower, red top; 13.	
4292 <i>E 0031</i>	-Dique de Benabola, elbow.	36° 29.1' N 4° 57.2' W	Fl.R. period 5s	23 7	4	Truncated masonry tower, red lantern; 13.	Siren: 1 bl. ev. 60s (bl. 5s, si. 55s).
4296 <i>E 0032</i>	-Dique de Levante, S. head.	36° 29.0' N 4° 57.3' W	Fl.G. period 4s fl. 1s, ec. 3s	42 13	8	Truncated masonry tower, green lantern; 30.	
4300 <i>E 0032.2</i>	--N. head.	36° 29.4' N 4° 56.9' W	Q.(6)+L.Fl.W. period 15s	33 10	4	Masonry tower, yellow lantern.	
4304 <i>E 0056</i>	Marbella.	36° 30.5' N 4° 53.3' W	Fl.(2)W. period 14.5s fl. 0.4s, ec. 3.2s fl. 0.4s, ec. 10.5s	115 35	22	White round tower; 95.	
4312 <i>E 0057.6</i>	Cabo Pino, marina.	36° 29.0' N 4° 44.4' W	Fl.(4)G. period 10s	23 7	4	White round tower; 13.	Q.(6)+L.Fl.W. 15s 3M on jetty.
4316 <i>E 0057.8</i>	-W. jetty, head.	36° 29.0' N 4° 44.6' W	Fl.(2)R. period 5s fl. 0.7s, ec. 0.7s fl. 0.7s, ec. 2.9s	23 7	4	White round tower; 13.	
4320 <i>E 0058</i>	Punta Calaburras AVIATION LIGHT.	36° 30.5' N 4° 38.3' W	Fl.W. period 5s fl. 0.3s, ec. 4.7s	151 46	18	White truncated conical tower; 83.	Period subject to variation.
PUERTO DE BENALMADENA:							
4324 <i>E 0060.5</i>	-S. breakwater, NE. head.	36° 35.9' N 4° 30.4' W	Q.(3)W. period 10s	30 9	4	E. CARDINAL Truncated masonry tower; 16.	
4328 <i>E 0060.4</i>	--SW. head.	36° 35.7' N 4° 30.7' W	Fl.G. period 5s fl. 1s, ec. 4s	30 9	10	White conical tower, green band; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-MEDITERRANEAN SEA							
4330 <i>E 0059.4</i>	-W. breakwater, E. head.	36° 32.5' N 4° 36.9' W	Fl.(2)G. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	20 6	3	Green truncated pyramidal tower; 13.	
4332 <i>E 0060.6</i>	--SW. head.	36° 35.7' N 4° 30.6' W	Fl.R. period 5s fl. 0.5s, ec. 4.5s	13 4	4	White conical tower, red band; 7.	
4334 <i>E 0060.3</i>	-Laja Bermeja.	36° 35.6' N 4° 30.8' W	Q.(3)W. period 11s	23 7	5	E. CARDINAL BYB, tower, topmark; 13.	
4336 <i>E 0060.7</i>	-S. breakwater, N. end of T-head.	36° 35.6' N 4° 36.7' W	Fl.(2)G. period 6s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 3.5s	13 4	4	White conical tower, green band; 7.	
FUENGIROLA:							
4339 <i>E 0058.5</i>	-Pier, head.	36° 32.7' N 4° 36.7' W	Fl.G. period 5s fl. 0.5s, ec. 4.5s	16 5	5	Green pyramidal tower; 13.	
4340 <i>E 0059</i>	-Main Peak.	36° 33.0' N 4° 37.0' W	Fl.(4)R. period 12s	33 10	4	Red pyramidal tower; 12.	
4346 <i>E 0060.8</i>	Offshore terminal.	36° 39.8' N 4° 26.3' W	V.Q.(3)W. period 5s	62 19	3	E. CARDINAL BYB, tower, topmark; 39.	
MALAGA:							
4348 <i>E 0061</i>	-Power station wharf.	36° 41.0' N 4° 26.4' W	Q.(3)W. period 10s	36 11	3	E. CARDINAL BYB, tower, topmark; 16.	
4360 <i>E 0062</i>	-Malaga.	36° 42.9' N 4° 24.8' W	Fl.(3+1)W. period 20s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 7.3s fl. 0.2s, ec. 7.3s	125 38	25	White truncated conical tower on 2-story dwelling; 108.	Obscured 047°-243°. Radiobeacon.
4364 <i>E 0064</i>	--Head.	36° 42.4' N 4° 24.9' W	Fl.(2)G. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	10 3	3	Green conical masonry tower; 13.	Visible 000°-200°.
4366 <i>E 0064.5</i>	-NE. breakwater.	36° 42.5' N 4° 24.7' W	Fl.(3)W. period 10s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 7.5s	39 12	3	Black round tower, yellow bands; 7.	
4366.5 <i>E 0065</i>	-SE. breakwater, head.	36° 41.9' N 4° 24.9' W	Fl. G. period 5s fl. 0.5s, ec. 4.5s	23 7	5	Green pyramidal tower; 13.	
4367 <i>E 0065.3</i>	-Rio Guadalmedina, submerged jetty, head.	36° 42.1' N 4° 25.7' W	Q.(6)W.+L.Fl. period 15s		3	S. CARDINAL YB, post, topmark; 13.	
4367.1 <i>E 0065.5</i>	-New contradike, SW. corner.	36° 42.1' N 4° 25.6' W	Q.(6)W.+L.Fl. period 15s		3	S. CARDINAL YB, tower, topmark; 13.	
4367.2 <i>E 0065.7</i>	--E. end.	36° 42.1' N 4° 25.1' W	Fl.R. period 5s fl. 0.5s, ec. 4.5s		5	Red truncated round tower; 16.	
4368 <i>E 0066</i>	-W. breakwater, head.	36° 42.5' N 4° 25.0' W	Fl.R. period 5s fl. 0.5s, ec. 4.5s	42 13	4	Red conical masonry tower; 23.	Visible 347°-231°.
4370 <i>E 0069</i>	-Small craft harbor, N. dike, head.	36° 42.9' N 4° 24.9' W	Fl.(3)R. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	19 6	2	Red metal column; 10.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-MEDITERRANEAN SEA							
4371 E 0069.2	--S. dike, head.	36° 42.9' N 4° 24.9' W	Fl.(3)G. period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4.5s	19 6	2	Green metal column; 10.	
4371.5 E 0069.4	-Muelle Canovas del Castillo.	36° 43.0' N 4° 24.1' W	Fl.(2+1)G. period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 4.5s	23 7	2	Green tower, red band.	
4372 E 0067.5	-Fishing Basin in outer habor, N. spur mole, head.	36° 42.7' N 4° 25.2' W	Q.G.	16 5	2	Conical stone tower; 10.	
4376 E 0067	--S. spur mole, head.	36° 42.6' N 4° 25.2' W	Q.R.	13 4	2	Conical stone tower; 10.	
4380 E 0068	-E. inner mole, head.	36° 42.8' N 4° 24.9' W	Fl.(2)G. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	2	Conical masonry tower; 16.	
4384 E 0070	-W. transversal mole, SE. corner.	36° 42.8' N 4° 25.0' W	Fl.(2+1)R. period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 4.5s	23 7	2	Conical masonry tower; 16.	
4384.5 E 0070.2	-Romero Robledo, mole, NE. corner.	36° 42.8' N 4° 25.0' W	Fl.(4)R. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	2	Pillar on hut.	
4388 E 0071	Puerto de El Candado, outer breakwater, head.	36° 42.7' N 4° 20.8' W	Oc.G. period 3s	23 7	4	Truncated tower, green top; 13.	
4389 E 0071.2	-Dique de Pontiente, head.	36° 42.9' N 4° 20.8' W	Iso.R. period 2s	23 7	3	Masonry tower, red top; 13.	
4392 E 0072	Torre del Mar.	36° 44.1' N 4° 05.8' W	Fl.(1+2)W. period 10s fl. 1s, ec. 1s fl. 1s, ec. 3s fl. 1s, ec. 3s	98 30	13	White round tower; 92.	Storm signals.
4396 E 0073.2	-Outer breakwater, head.	36° 44.9' N 4° 04.1' W	Fl.G. period 5s	29 9	5	White conical tower, green top; 13.	
4402 E 0073.7	-Silt retention dike, head.	36° 44.8' N 4° 04.4' W	Fl.(3)R. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	26 8	3	Red truncated tower; 13.	
4404 E 0073.6	-Inner breakwater, head.	36° 44.9' N 4° 04.1' W	Fl.(2)R. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	13 4	3	White round tower, red top; 7.	
4408 E 0074	Punta de Torrox.	36° 43.7' N 3° 57.4' W	Fl.(4)W. period 15s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 7.2s	95 29	20	Truncated tower, white building; 75.	
4409 E 0075	Puerto de la Mona.	36° 43.8' N 3° 43.5' W	Fl.R. period 5s fl. 1s, ec. 4s	43 13	4	Masonry tower, upper part red; 16.	
4410 E 0075.2	-Contradike.	36° 43.5' N 3° 43.5' W	Fl.(2)G. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	16 5	3	Masonry tower, upper part green; 10.	
4411 E 0074.8	Punta de la Mona.	36° 43.5' N 3° 43.8' W	Fl.W. period 5s fl. 1s, ec. 4s	459 140	15	Truncated conical masonry tower; 46.	

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SPAIN-MEDITERRANEAN SEA							
4411.5 E 0077	Motril, Dique de Poniente, head.	36° 43.2' N 3' 31.3' W	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	36 11	10	Red truncated conical tower; 16.	
4412 E 0079.2	New E. dike, head.	36° 43.3' N 3' 31.3' W	Fl.G. period 5s	19 6	2	Green truncated conical tower; 16.	Fl.R. 5s 2M marks W. dike.
4416 E 0079	-On angle.	36° 43.2' N 3' 31.2' W	Fl.(3)G. period 12s	19 6	5	Green truncated tower.	
4420 E 0080	Cabo Sacratif.	36° 41.7' N 3' 28.0' W	Fl.(2)W. period 10s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 7.3s	320 98	25	White conical tower, dwelling; 56.	
4422 E 0082	Punta del Melonar.	36° 43.2' N 3' 21.9' W	Fl.(3)W. period 13s	778 237	14	White truncated conical tower; 39.	
4424 E 0088	Adra.	36° 44.9' N 3' 01.8' W	Oc.(3)W. period 10.5s lt. 4.5s, ec. 1s lt. 1.5s, ec. 1s lt. 1.5s, ec. 1s	161 49	16	White tower, white and red bands; 85.	Reserve light range 9M.
4428 E 0088.4	-On W. mole, head.	36° 44.6' N 3' 01.1' W	Fl.(2)R. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	27 8	4	Red concrete tower.	Fl.G. 5s shown on head of E. mole.
4430 E 0089.5	Punta de los Bunos.	36° 41.8' N 2' 50.8' W	Fl.(4)W. period 11s	72 22	11	White masonry tower.	
4432 E 0091	Alerimar, S. breakwater, head.	36° 41.8' N 2' 47.8' W	Fl.(4)G. period 21s	43 13	5	Green quadrangular tower.	
4437 E 0091.6	--Jetty No."1", head.	36° 42.0' N 2' 47.9' W	Fl.(4)R. period 11s	10 3	3	Post on red truncated pyramidal tower; 10.	
4440 E 0090	Punta Sabinal.	36° 41.3' N 2' 42.0' W	Fl.(1+2)W. period 10s fl. 0.4s, ec. 3.9s fl. 0.4s, ec. 1s fl. 0.4s, ec. 3.9s	112 34	16	Truncated tower on white hut; 105.	
4444 E 0092	Roquetas de Mar, S. mole, head.	36° 45.4' N 2' 36.2' W	Fl.(3)R. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	33 10	5	Red round concrete tower; 13.	
4448 E 0092.4	-Dique Norte, head.	36° 45.4' N 2' 36.2' W	Fl.(3)G. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	20 6	3	Round tower on green square hut; 10.	
4452 E 0093	Almeria.	36° 49.8' N 2' 29.5' W	Fl.(2)W. period 12s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 9.7s	253 77	19	Four-sided stone tower, black stripe; 23.	
4456 E 0095	-Puerto Pesquero, Dique Sur, head.	36° 50.0' N 2' 29.0' W	Fl.(4)G. period 10.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4s	33 10	3	Green truncated conical tower.	
4460 E 0094	--Dique del Oeste, head.	36° 49.9' N 2' 29.0' W	Fl.(3)R. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	33 10	4	Red truncated conical tower.	
4462 E 0095.5	-Muelle de Armamento, S. head.	36° 50.0' N 2' 29.1' W	Fl.(4)R. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	16 5	1	Red tower; 10.	

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SPAIN-MEDITERRANEAN SEA							
4464 <i>E 0096</i>	-W. breakwater, head.	36° 49.6' N 2° 27.8' W	Fl.R. period 5s fl. 1s, ec. 4s	62 19	7	White octagonal tower, red top and base; 39.	F.R. shown adjacent to pilot house and on pier. Once inside, range marks middle of port.
4468 <i>E 0099</i>	-Muelle de Poniente, SE. corner.	36° 49.9' N 2° 28.2' W	Fl.(2)R. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	16 5	1	Red tower; 10.	
4469 <i>E 0100.4</i>	-RoRo Ramp.	36° 50.1' N 2° 28.2' W	Fl.(3)G. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	20 6	2	Green masonry tower; 10.	
4470 <i>E 0100.2</i>	-Yacht Club, pier, head.	36° 50.2' N 2° 28.6' W	Oc.G. period 2s lt. 1.5s, ec. 0.5s	13 4	1	Green masonry tower; 10.	
4472 <i>E 0098</i>	-E. breakwater, head.	36° 49.9' N 2° 28.0' W	Fl.(2+1)G. period 21s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 13.5s	13 4	2	Green tower, red band.	
4473 <i>E 0101.4</i>	-Dique de Abrigio, head.	36° 49.9' N 2° 27.8' W	Fl.(2)G. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	13 4	2	Green tower; 10.	Fl.Y. 5s 1M shown from base of dike.
4473.5 <i>E 0101.6</i>	--Contradique, head.	36° 49.9' N 2° 27.8' W	Fl.(2)R. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	13 4	1	Red tower; 10.	
4474 <i>E 0101</i>	-Ore Wharf No. "1", head.	36° 49.9' N 2° 27.9' W	Fl.R. period 3s fl. 1s, ec. 2s	23 7	1		
4476 <i>E 0102</i>	-Ore Wharf No. "2", head.	36° 49.9' N 2° 27.5' W	Fl.G. period 5s fl. 0.5s, ec. 4.5s	25 8	4	Green metal support.	
4484 <i>E 0103</i>	-Power station wharf.	36° 49.2' N 2° 26.6' W	Q.(9)W. period 15s	35 11	4	W. CARDINAL YBY, tower, topmark; 30.	
4488	-Punta del Rio Buoy.	36° 48.4' N 2° 25.8' W	Q.(6)+L.Fl.W. period 15s			S. CARDINAL YB	
4492 <i>E 0106</i>	Cabo de Gata.	36° 43.4' N 2° 11.5' W	Fl.W.R. period 4s fl. 0.2s, ec. 3.8s	180 55	W. 24 R. 20	White truncated tower, gray lantern; 62.	R. 316°-356°, W.-316°. Horn: Mo.(G) ev. 40s (bl. 4.5s, si. 2s, bl. 4.5s, si. 2s, bl. 1.5s, si. 25.5s). Radiobeacon.
PUERTO DE SAN JOSE:							
4494 <i>E 0107</i>	-S. dike, head.	36° 45.8' N 2° 06.1' W	Fl.R. period 6s fl. 0.5s, ec. 5.5s	23 7	3	PORT (A) R, tower, topmark.	
4494.2 <i>E 0107.3</i>	-E. dike, head.	36° 45.8' N 2° 06.1' W	Fl.G. period 7s fl. 1s, ec. 6s	26 8	4	STARBOARD (A) G, tower, topmark.	
4494.4 <i>E 0107.2</i>	--Jetty, head.	36° 45.8' N 2° 06.2' W	Fl.(3)W. period 14s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 7s	13 4	2	White masonry tower.	
4495 <i>E 0107.7</i>	Punta de la Polacra.	36° 50.6' N 2° 00.1' W	Fl.(3)W. period 14s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 7.5s	919 280	14	Masonry tower; 46.	

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SPAIN-MEDITERRANEAN SEA							
4496 <i>E 0108</i>	Mesa Roldan.	36° 56.6' N 1° 54.3' W	Fl.(4)W. period 20s fl. 0.3s, ec. 3s fl. 0.3s, ec. 3s fl. 0.3s, ec. 3s fl. 0.3s, ec. 9.8s	728 222	23	White octagonal tower; 59.	
4500 <i>E 0109</i>	Puerto de Carboneras, Playa de la Torre Vieja, S. breakwater, head.	36° 57.9' N 1° 53.6' W	Fl.(2)G. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	33 10	5	Green metal tower; 39.	
4504 <i>E 0109.2</i>	--S. breakwater, elbow.	36° 58.2' N 1° 53.5' W	Q.(3)W. period 10s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 7.5s	46 14	3	Round concrete tower.	
4506 <i>E 0109.4</i>	--N. breakwater, head.	36° 58.4' N 1° 53.7' W	Fl.G. period 10s fl. 1s, ec. 9s	46 14	5	Green metal post; 13.	
4508 <i>E 0109.3</i>	--W. jetty.	36° 57.8' N 1° 53.7' W	Fl.(2)R. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	23 7	3	Red round tower; 10.	
4509 <i>E 0109.5</i>	--Auxiliary dike, N. head.	36° 58.1' N 1° 53.9' W	Fl.(2)R. period 9s fl. 0.5s, ec. 1s fl. 0.5s, ec. 7s	33 10	1	Red metal framework tower; 10.	
4510 <i>E 0109.6</i>	--Puerto Pesquero.	36° 59.4' N 1° 53.8' W	Fl.(3)G. period 12s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 5s	33 10	5	Green round tower; 20.	Fl.R. 4s marks breakwater close N.
4511 <i>E 0109.7</i>	--W. jetty.	36° 59.4' N 1° 53.9' W	Fl.(3)R. period 12s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 5s	33 10	3	Red round tower; 16.	
4512 <i>E 0110</i>	Garrucha.	37° 10.5' N 1° 49.4' W	Oc.(4)W. period 13s lt. 4.5s, ec. 1s lt. 1.5s, ec. 1s lt. 1.5s, ec. 1s lt. 1.5s, ec. 1s	62 19	13	White tower on house; 33.	
4516 <i>E 0111</i>	--Dique de Levante.	37° 10.8' N 1° 48.9' W	Fl.(3)G. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	43 13	5	Green round post; 36.	E. cardinal beacon Q.(3)W. 10s 4m 4M marks submerged groin 300 meters WSW.
4520 <i>E 0112</i>	--Dique de Poniente, 201 meters 336° from Dique de Lavante.	37° 11.0' N 1° 49.0' W	Fl.(3)R. period 8.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4s	21 6	3	Red truncated tower.	
4522 <i>E 0113</i>	Esperanza Cove.	37° 15.1' N 1° 46.0' W	Fl.(3)G. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	23 7	5	Green tower.	
4524 <i>E 0114</i>	Aguilas, on Punta Negra, W. of the port.	37° 24.2' N 1° 34.6' W	Fl.(2)W. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	99 30	13	Tower, white and black bands, aluminum lantern; 76.	Visible over an arc of 270°.
4528 <i>E 0116</i>	--Near mole, head.	37° 24.3' N 1° 34.4' W	Fl.(2)R. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	30 9	3	Gray metal post; 16.	
4532 <i>E 0117.5</i>	--Islote de la Aguilica.	37° 24.2' N 1° 33.9' W	Fl.G. period 3s fl. 0.3s, ec. 2.7s	62 19	3	White quadrangular tower.	

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SPAIN-MEDITERRANEAN SEA							
4536 <i>E 0120</i>	Mazarron.	37° 33.7' N 1° 15.2' W	Oc.(1+2)W. period 13.5s fl. 1.5s, ec. 1s fl. 4.5s, ec. 1s fl. 4.5s, ec. 1s	213 65	15	White tower, black bands; 36.	Reserve light range 8M.
4540 <i>E 0120.5</i>	-Breakwater, head.	37° 33.9' N 1° 15.3' W	Fl.(2)R. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	30 9	4	Gray metal post; 10.	
4541 <i>E 0120.7</i>	-La Galerica Island.	37° 33.9' N 1° 15.3' W	Q.G.	30 9	3	Metal framework tower, green top; 23.	
4548 <i>E 0124</i>	Cabo Tinoso.	37° 32.2' N 1° 06.4' W	Fl.(1+3)W. period 20s fl. 0.2s, ec. 6.4s fl. 0.2s, ec. 3.2s fl. 0.2s, ec. 3.2s fl. 0.2s, ec. 6.4s	479 146	24	White tower and dwelling; 33.	
ALGAMECA GRANDE:							
4552 <i>E 0125</i>	-Breakwater, head.	37° 35.1' N 1° 00.3' W	Fl.(4)R. period 12s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 7s	33 10	7	White and yellow truncated tower; 16.	
4556 <i>E 0125.3</i>	-On point, about 201 meters NE. of breakwater.	37° 35.2' N 1° 00.2' W	Fl.(3)G. period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	26 8	3	White and yellow truncated tower; 10.	
4560 <i>E 0125.6</i>	-Mole, about 284 meters NW. of breakwater.	37° 35.2' N 1° 00.4' W	F.G.	23 7	2	Gray iron column; 15.	
CARTAGENA:							
4564 <i>E 0126</i>	-Islote Escombrera.	37° 33.6' N 0° 58.1' W	Fl.W. period 5s fl. 0.2s, ec. 4.8s	213 65	17	White round tower, dwelling, aluminum cupola; 26.	
-Puerto de Escombreras:							
4568 <i>E 0126.2</i>	--Bastarrece, mole, head.	37° 34.2' N 0° 58.0' W	Fl.G. period 3s fl. 0.5s, ec. 2.5s	33 10	5	Gray truncated pyramidal tower; 23.	Radar reflector.
4569 <i>E 0126.4</i>	--Pantalan Metaneros, E end.	37° 34.4' N 0° 57.8' W	Fl.(3)R. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	26 8	1	Red post; 3.	
4576.5 <i>E 0126.5</i>	--Muelle Pantalou, on dolphin.	37° 34.1' N 0° 57.6' W	Fl.(2+1)R. period 14.5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s fl. 0.5s, ec. 9s	23 7	1	Red column, green band; 13.	
4576.75 <i>E 0126.65</i>	--Punta de los Paraies, SW. head.	37° 34.0' N 0° 57.2' W	Fl.(2)G. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	1	Green column; 13.	
4577 <i>E 0126.7</i>	--Muelle Principe Felipe.	37° 34.2' N 0° 57.5' W	Fl.(4)R. period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	23 7	1	Red column; 13.	
4577.2 <i>E 0126.64</i>	--Nuevo Muelle de Isaac Peral, SE. corner.	37° 34.1' N 0° 57.1' W	Fl.R. period 3s fl. 0.5s, ec. 2.5s	23 7	1	Red column; 13.	

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SPAIN-MEDITERRANEAN SEA							
4577.5 <i>E 0126.75</i>	---On dolphin.	37° 34.3' N 0° 57.6' W	Fl.(2+1)G. period 16s fl. 1s, ec. 1s fl. 1s, ec. 3s fl. 1s, ec. 9s	23 7	1	Green column, red bands; 13.	
4580 <i>E 0127</i>	-Las Losas, about 2 km. 343° from Islote Escombrera.	37° 34.5' N 0° 58.5' W	Q.(6)+L.Fl.W. period 15s	18 5	5	S. CARDINAL YB, tower, topmark.	
4588 <i>E 0128</i>	-Dique de Navidad (Oestre), head.	37° 35.1' N 0° 59.1' W	Fl.(2)R. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	49 15	5	White tower, red top; 36.	
4592 <i>E 0130</i>	-Dique de la Curra (Este).	37° 35.4' N 0° 58.9' W	Fl.(3)G. period 14s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 7.5s	45 14	5	White round masonry tower, green cupola; 36.	Oc.G. 3s shown from the Yacht Club landing.
4593 <i>E 0130.5</i>	-Muelle del Carbon.	37° 35.4' N 0° 59.2' W	Fl.(3)R. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	26 8	1	Red post; 16.	
4595 <i>E 0132</i>	-Dique-muelle de Santiago, head.	37° 35.9' N 0° 58.4' W	Fl.R. period 3s fl. 0.5s, ec. 2.5s	16 5	1	Red column; 13.	
4595.5 <i>E 0132.2</i>	-Muelle de talleres, NW. corner.	37° 35.9' N 0° 58.4' W	Fl.G. period 3s fl. 0.5s, ec. 2.5s	16 5	1	Green column; 10.	
4595.75 <i>E 0132.4</i>	-Dique de Alba.	37° 35.8' N 0° 58.5' W	Fl.(2+1)G. period 16s fl. 1s, ec. 1s fl. 1s, ec. 3s fl. 1s, ec. 9s	16 5	1	Green column, red band; 10.	
4596 <i>E 0134</i>	Puerto de Portman, Punta de la Chapa.	37° 34.8' N 0° 50.5' W	Oc.W. period 3.5s lt. 2.5s, ec. 1s	161 49	13	White tower, dwelling; 26.	Visible over an arc of 270°.
4600 <i>E 0136</i>	Cabo de Palos.	37° 38.2' N 0° 41.3' W	Fl.(2)W. period 10s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 7.2s	265 81	23	Gray tower, dwelling; 167.	Siren: Mo.(P) ev. 40s. Radiobeacon 130 meters 350°.
RACON		M(—)		20			
PUERTO DE CABO DE PALOS:							
4604 <i>E 0137</i>	-Cala Auellan, mole.	37° 37.8' N 0° 42.0' W	Fl.(2)G. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	20 6	5	Green metal post; 10.	Visible 331°-210°.
4608 <i>E 0137.4</i>	-Dique de Abrigo, off head.	37° 37.9' N 0° 41.9' W	Fl.(2)R. period 12s fl. 1.5s, ec. 2s fl. 1.5s, ec. 7s	16 5	3	Red post, white bands; 10.	
4616 <i>E 0138</i>	Isla Hormiga.	37° 39.4' N 0° 38.9' W	Fl.(3)W. period 14s fl. 0.8s, ec. 2.2s fl. 0.8s, ec. 2.2s fl. 0.8s, ec. 7.2s	79 24	8	Gray tower, dwelling; 39.	
4624 <i>E 0140</i>	El Estacio.	37° 44.5' N 0° 43.4' W	Fl.(4)W. period 20s fl. 1.2s, ec. 2.4s fl. 1.2s, ec. 2.4s fl. 1.2s, ec. 2.4s fl. 1.2s, ec. 8s	105 32	14	White round tower, black bands; 95.	Fl.(3)G. 9s, Fl.(2)R. 7s, and Fl.W. 2.5s lights shown on and near Los Escolletos to SSE.
4628	Isla Grosa, peak.	37° 43.7' N 0° 42.4' W	Fl.W. period 1.5s fl. 0.5s, ec. 1s	318 97	3	Red round turret; 7.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-MEDITERRANEAN SEA							
4632 <i>E 0141</i>	San Javier AVIATION LIGHT.	37° 47.3' N 0° 48.1' W	Fl.W. period 6s			Control tower.	Q.R. and Q.G. lights shown from moleheads. Occasional.
4636 <i>E 0141.5</i>	San Pedro del Pinatar, N. dique, head.	37° 49.3' N 0° 45.2' W	Fl.(3)G. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	39 12	4	Green metal mast; 39.	Fl.R. 5s 3M marks head of S. dique.
4640 <i>E 0146</i>	Torre vieja, E. breakwater, head.	37° 57.9' N 0° 41.2' W	Fl.G. period 4s fl. 0.5s, ec. 3.5s	49 15	7	STARBOARD (A) G, concrete pillar; 33.	
4644 <i>E 0146.2</i>	-W. breakwater, about 229 meters NW. of Torre vieja, head.	37° 57.9' N 0° 41.3' W	Fl.(3)R. period 11.5s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 6s	35 11	2	Ocatagonal masonry tower; 21.	
4645 <i>E 0146.4</i>	-Fishing Port, breakwater, head.	37° 58.4' N 0° 40.9' W	Fl.(2)G. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	13 4	2	Green structure.	
4646 <i>E 0146.6</i>	-Yacht Club jetty, E. head.	37° 58.5' N 0° 40.9' W	Fl.(4)R. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	13 4	2	Red column.	
4648 <i>E 0147</i>	Guardamar.	38° 04.3' N 0° 39.8' W	Oc.R. period 1.5s	1453 443	15	Radio tower, red and white bands.	On the same tower 7 groups of F.R. horizontal lights, spaced 45 meters apart from top, are shown.
4650 <i>E 0147.5</i>	Rio Segura, directional dam, S. end.	38° 06.7' N 0° 38.3' W	Fl.(3)R. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	26 8	5	Red support; 16.	Fl.(3)G. 148 meters NW.
4652 <i>E 0148</i>	Isla Tabarca (Plana).	38° 09.7' N 0° 28.2' W	Oc.(2)W. period 10s lt. 2s, ec. 2s lt. 4s, ec. 2s	95 29	15	White round tower; 46.	
4656 <i>E 0149</i>	-Breakwater, NE. side of island, head.	38° 09.9' N 0° 28.7' W	Fl.(2)R. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	33 10	3	Metal tower; 13.	
4664 <i>E 0152</i>	Cabo Santa Pola.	38° 12.0' N 0° 30.8' W	F.Fl.(1+2)W. period 20s fl. 0.2s, ec. 2.6s fl. 0.2s, ec. 8.4s fl. 0.2s, ec. 8.4s	498 152	Fl 16 F. 11	White square tower; 49.	Visible over an arc of 270°.
4668 <i>E 0154</i>	-Muelle de Santa Pola.	38° 11.1' N 0° 33.8' W	Fl.G. period 5s fl. 0.5s, ec. 4.5s	30 9	4	White and green tower; 16.	
4672 <i>E 0155</i>	-Contradique, extremity.	38° 11.1' N 0° 33.7' W	Fl.(2)R. period 7s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 4.7s	19 6	3	Octagonal tower; 17.	
ALICANTE:							
4676 <i>E 0157</i>	-Alicante AVIATION LIGHT.	38° 17.3' N 0° 34.0' W	Al.Fl.W.G. period 4.3s	193 59		Metal tower.	
4680 <i>E 0158</i>	-Outer breakwater, head.	38° 19.6' N 0° 29.4' W	Fl.G. period 5s fl. 1.5s, ec. 3.5s	46 14	11	Green metal framework tower, white base; 30.	
4682 <i>E 0158.4</i>	-Terminal, SW. corner.	38° 19.7' N 0° 29.6' W	Fl.R. period 5s fl. 0.5s, ec. 4.5s	30 9	6	Red round tower on white base; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-MEDITERRANEAN SEA							
4682.5 <i>E 0158.6</i>	--NE. corner.	38° 19.8' N 0° 29.5' W	Fl.(2)R. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	30 9	3	Red round tower on white base; 20.	
4684 <i>E 0161</i>	-E. mole, head.	38° 20.2' N 0° 28.9' W	Fl.G. period 2.5s fl. 0.5s, ec. 2s	26 8	3	Green round tower; 20.	
4688 <i>E 0162</i>	-SE. corner of W. mole.	38° 20.3' N 0° 28.9' W	Fl.(4)R. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	3	Iron column; 13.	Visible over an arc of 264°.
4692 <i>E 0159</i>	-Fishing Harbor, mole, elbow.	38° 19.8' N 0° 29.4' W	Fl.R. period 2.5s fl. 0.5s, ec. 2s	26 8	5	Red round tower, white base; 23.	
4696 <i>E 0159.3</i>	--Muelle II, mole, head.	38° 20.0' N 0° 29.2' W	Fl.(2)R. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	26 8	3	Red round tower; 20.	
4700 <i>E 0160</i>	--Muelle A, mole, head.	38° 20.0' N 0° 29.1' W	Fl.(2+1)R. period 8s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	26 8	3	Red round tower; green band; 20.	
4704 <i>E 0166</i>	Cabo de las Huertas.	38° 21.1' N 0° 24.2' W	Fl.(3+2)W. period 23s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 6s fl. 1s, ec. 2s fl. 1s, ec. 6s	125 38	15	White round tower; 26.	
VILLAJOSYA:							
4708 <i>E 0168</i>	-Dique de Levante, head.	38° 30.3' N 0° 13.1' W	Fl.G. period 3s fl. 0.5s, ec. 2.5s	46 14	4	White octagonal tower, green base and top; 23.	
4712 <i>E 0169</i>	-Dique de Poniente, head.	38° 30.4' N 0° 13.1' W	Fl.(2)R. period 6s	23 7	3	White octagonal tower, red base; 20.	
4716 <i>E 0172</i>	Islote de Benidorm.	38° 30.0' N 0° 07.8' W	Fl.W. period 3s fl. 0.3s, ec. 2.7s	197 60	7	White conical tower; 13.	
4720 <i>E 0172.5</i>	Puerto de Benidorm, Digue de Abongo, head.	38° 32.0' N 0° 07.9' W	Fl.G. period 3s	26 8	4	Green tower on white hut; 9.	Visible 305°-254°.
4724 <i>E 0173.6</i>	Punta Bombarda (Albir).	38° 33.7' N 0° 03.0' W	Fl.(3)W. period 27s fl. 1.5s, ec. 4.5s fl. 1.5s, ec. 4.5s fl. 1.5s, ec. 13.5s	367 112	15	White round tower, dwelling; 26.	
4728 <i>E 0174</i>	Altea, E. breakwater.	38° 35.1' N 0° 03.2' W	Fl.(3)G. period 8s fl. 0.2s, ec. 1.8s fl. 0.2s, ec. 1.8s fl. 0.2s, ec. 3.8s	39 12	3	Green octagonal tower; 20.	
4732 <i>E 0174.2</i>	-W. breakwater.	38° 35.2' N 0° 03.3' W	Fl.(2)R. period 6s fl. 0.4s, ec. 1.6s fl. 0.4s, ec. 3.6s	30 9	3	Red octagonal tower; 20.	
EL PORTET							
4732.5 <i>E 0174.4</i>	-Breakwater, head.	38° 36.9' N 0° 01.9' W	Fl.(2)G. period 9s fl. 1s, ec. 2s fl. 1s, ec. 5s	20 6		Green round tower, white base; 13.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-MEDITERRANEAN SEA							
4732.75 E 0174.6	-Contradique, head.	38° 36.9' N 0° 01.9' W	Fl.(2)R. period 9s fl. 1s, ec. 2s fl. 1s, ec. 5s	23 7		Red round tower, white base; 13.	
4733 E 0174.92	Masarat, S. breakwater, W. head.	38° 37.7' N 0° 00.3' W	Fl.G. period 6s fl. 1.5s, ec. 4.5s	20 6	4	White round tower, green top; 26.	
4734 E 0174.9	-E. head.	38° 37.7' N 0° 00.0' W	Fl.W. period 3s fl. 0.6s, ec. 2.4s	20 6	4	Black round tower, white top; 33.	
4735 E 0174.93	-Contradique, head.	38° 37.7' N 0° 00.2' W	F.R.	20 6	4	White round tower, red top; 26.	
4736 E 0175.4	Calpe, S. breakwater.	38° 38.2' N 0° 04.1' E	Fl.G. period 4s	43 13	3	Masonry tower, green top; 20.	
4740 E 0175.2	-W. breakwater.	38° 38.1' N 0° 04.2' E	Fl.(4)R. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5s	27 8	6	Truncated conical concrete tower, red top; 13.	
SPAIN-ISLAS BALEARES							
ISLA DE FORMENTERA:							
4744 E 0250	-Formentera.	38° 39.7' N 1° 35.0' E	Fl.W. period 5s fl. 0.4s, ec. 4.6s	466 142	23	White tower on white dwelling; 72.	Visible 150°-050°.
4748 E 0251	-Cabo Berberia.	38° 38.4' N 1° 23.3' E	Fl.(2)W. period 15s fl. 0.2s, ec. 1.8s fl. 0.2s, ec. 12.8s	255 78	18	White round tower; 62.	Visible 234°-171°.
4752 E 0252	-Punta Cala Sabina.	38° 44.1' N 1° 24.9' E	Fl.(4)W. period 16s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 6s	43 13	7	White conical tower; 36.	
4756 E 0253	-Puerto de La Sabina, breakwater, head.	38° 44.1' N 1° 25.1' E	Fl.(2)G. period 6s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 3.5s	36 11	3	Green column on white tower, green triangular daymark, point up; 26.	
4760 E 0249	-Cala Pujols Range, front.	38° 43.4' N 1° 27.4' E	Q.R.	12 4	2	White square tower, red top; 11.	
4764 E 0249.1	--Rear, 80 meters 215°27' from front.	38° 43.4' N 1° 27.4' E	Iso.R. period 4s	24 7	2	White square tower, red top; 23.	
4768 E 0256	Isla Espardell, N. point.	38° 48.2' N 1° 28.6' E	Fl.(3)W. period 7.5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	115 35	8	White truncated tower; 53.	
4772 E 0254	Los Puercos (Pou), on islet, S. side of channel between Formentera and Ibiza.	38° 47.9' N 1° 25.3' E	Fl.(3+1)W. period 20s fl. 0.8s, ec. 2.2s fl. 0.8s, ec. 2.2s fl. 0.8s, ec. 6.2s fl. 0.8s, ec. 6.2s	92 28	11	White tower, black band; 82.	
4774 E 0253.5	Isla de Gastabi.	38° 46.5' N 1° 24.9' E	Q.(9)W. period 15s	39 12	4	W. CARDINAL YBY, beacon, topmark; 26.	
4776 E 0258	Bajo den Pou.	38° 48.3' N 1° 25.1' E	Q.W.	33 10	4	N. CARDINAL BY, beacon, topmark.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-ISLAS BALEARES							
4780 E 0260	Isla de Ahorcados, S. extremity.	38° 48.8' N 1° 24.7' E	Oc.(1+2)W. period 14s lt. 3.5s, ec. 2s lt. 3.5s, ec. 2s lt. 1s, ec. 2s	89 27	12	Tower, black and white bands; 66.	
ISLA DE IBIZA:							
4784 E 0274	-Isla Conejera.	38° 59.5' N 1° 12.7' E	Fl.(4)W. period 20s fl. 0.2s, ec. 1.5s fl. 0.2s, ec. 1.5s fl. 0.2s, ec. 1.5s fl. 0.2s, ec. 14.7s	270 82	18	White tower, dwelling; 57.	
4788 E 0276	-Bleda Plana, on islet.	38° 58.9' N 1° 09.6' E	Fl.(3)W. period 15s fl. 0.8s, ec. 2.4s fl. 0.8s, ec. 2.4s fl. 0.8s, ec. 7.8s	92 28	10	White metal tower; 26.	Visible 349°-239°.
4796 E 0273	--Punta Xinxo.	38° 58.3' N 1° 17.0' E	Fl.(2)G. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	28 9	5	Green column on white hut, green triangular daymark, point up; 26.	Visible 075°-275°.
4799 E 0267.8	--Marina, outer breakwater.	38° 58.9' N 1° 32.3' E	Fl.(3)G. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	36 11	5	Green tower; 19.	
4800 E 0268	-Isla de Tagomago.	39° 02.0' N 1° 38.9' E	Fl.(2+1)W.R. period 30s fl. 0.3s, ec. 2.1s fl. 0.3s, ec. 13.5s fl. 0.3s, ec. 13.5s	282 86	17	White octagonal tower on building; 75.	W. 043°30'-037°, R.-043°30', over Bajo de Santa Eulalia.
4804 E 0270	-Punta Moscarte.	39° 06.9' N 1° 31.9' E	Fl.W. period 5s fl. 0.3s, ec. 4.7s	305 93	18	White round tower, black diagonal stripes; 171.	Visible 074°-294°.
-Puerto de Ibiza:							
4808 E 0264	--Islote Botafoch, entrance, E. side.	38° 54.2' N 1° 27.2' E	Oc.W.R. period 7s lt. 5s, ec. 2s	102 31	14	White round tower on white dwelling; 52.	W. 251°-034°, R.-045°, W.-242°. Siren: 2 bl. ev. 10s (bl. 2s, si. 2s, bl. 2s, si. 4s).
4810 E 0264.4	--Marina d'es Botafoch.	38° 54.6' N 1° 27.0' E	Fl.(2+1)G. period 11s fl. 0.4s, ec. 0.8s fl. 0.4s, ec. 3s fl. 0.4s, ec. 6s	20 6	3	Green pedestal, red band, green triangular daymark, point up; 10.	
4820 E 0265	--Dique de Abrigo.	38° 54.7' N 1° 26.6' E	Fl.R. period 3s fl. 0.7s, ec. 2.3s	37 11	7	White truncated tower, red cupola; 36.	Obscured on bearings greater than 345°.
4824 E 0266	--Contramuelle, on SE. angle.	38° 54.7' N 1° 26.3' E	Fl.(2)R. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	19 6	3	Red post; 13.	
4828 E 0266.2	---NW. angle.	38° 54.7' N 1° 26.3' E	Fl.(3)R. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	19 6	3	Red metal post; 13.	
4830 E 0265.6	--Ibiza la Nueva, S. breakwater, head.	38° 54.8' N 1° 26.6' E	Fl.(2)G. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	39 12	1	Green round tower on white base; 36.	
4840 E 0267	--Oil pier, near extremity.	38° 54.8' N 1° 26.4' E	Fl.(2+1)G. period 8s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 2s fl. 0.5s, ec. 4s	20 6	1	Green metal post, red band; 13.	Light is not at top of post.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-ISLAS BALEARES							
4842 <i>E 0267.2</i>	--- SW. head.	38° 54.8' N 1° 26.3' E	Fl.(4)G. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	20 6	1	Green metal post; 13.	Light is not at top of post.
4844 <i>E 0262</i>	-Islote Dado Grande.	38° 53.5' N 1° 27.2' E	Fl.(2)W. period 10s	43 13	6	ISOLATED DANGER BRB, tower, topmark; 20.	
4848 <i>E 0278</i>	-Islote Vedra, W. head.	38° 52.0' N 1° 11.0' E	Fl.W. period 5s fl. 1.2s, ec. 3.8s	67 20	11	White metal tower; 11.	Obscured 134°-262°.
ISLA DE CABRERA:							
4852 <i>E 0338</i>	-Punta Anciola.	39° 07.8' N 2° 55.4' E	Fl.(3)W. period 15s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 9.8s	396 121	19	Red and white checkered tower; 69.	Visible 277°-30°-169°.
4856 <i>E 0338.3</i>	-Cabo Lebeche.	39° 09.7' N 2° 55.1' E	Fl.(4)W. period 14.5s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 6.5s	243 74	7	Black and white checkered octagonal stone tower; 23.	
4860 <i>E 0338.6</i>	-Punta Creveta.	39° 09.3' N 2° 55.8' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	43 13	7	White octagonal tower, rectangular daymark; 16.	
4864 <i>E 0339</i>	-Puerto de Cabrera, mole, head.	39° 09.1' N 2° 56.1' E	Fl.(2)R. period 10.5s fl. 0.5s, ec. 2.2s fl. 0.5s, ec. 7.3s	15 5	5	Red column on hut; 13.	
4868 <i>E 0340</i>	Isla Horadada.	39° 12.5' N 2° 58.8' E	Fl.(2)W. period 12s fl. 0.8s, ec. 2.4s fl. 0.8s, ec. 8s	139 42	13	Truncated tower, white and black bands, on white building; 43.	Visible 047°-001°.
ISLA DE MALLORCA:							
4872 <i>E 0314</i>	-Cabo de Salinas, Mallorca, S. point.	39° 16.0' N 3° 03.1' E	Fl.(2+1)W. period 20s fl. 1s, ec. 2s fl. 1s, ec. 7.5s fl. 1s, ec. 7.5s	56 17	13	Tower and white hut; 56.	Visible 265°-116° Siren: Mo.(S) ev. 15s. Audible 260°-140°.
4876 <i>E 0314.4</i>	-Puerto de Campos, pier, head.	39° 19.0' N 3° 00.0' E	Fl.(4)R. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5s	15 5	3	PORT (A) R, beacon, topmark; 16.	
4880 <i>E 0314.6</i>	--Contradique, head.	39° 19.0' N 2° 59.9' E	Fl.G. period 3s fl. 1s, ec. 2s	14 4	1	Green column on white hut; 10.	
4884 <i>E 0315</i>	-Punta Puntasa.	39° 18.8' N 2° 59.6' E	Fl.(3)W. period 10.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 6s	59 18	7	White round tower, black bands; 39.	
4885 <i>E 0314.2</i>	-Isla de la Guardia.	39° 18.7' N 3° 00.1' E	Fl.(4)G. period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	23 7	5	White tower, upper part green; 16.	
4887 <i>E 0315.4</i>	-Rapita, breakwater, head.	39° 21.6' N 2° 57.1' E	Fl.R. period 2.2s fl. 0.5s, ec. 1.7s	23 7	4	Red column on white hut; 19.	

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SPAIN-ISLAS BALEARES							
4888 <i>E 0315.8</i>	-El Estanol, adjacent to the varadero.	39° 21.2' N 2° 54.9' E	Q.(4)W. period 7s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 3.5s	52 16	6	Tower on small hut, black and white bands; 39.	
4892 <i>E 0316</i>	-Cabo Blanco.	39° 21.9' N 2° 47.3' E	Oc.W. period 5s lt. 4s, ec. 1s	312 95	15	White tower, dwelling; 39.	Visible 296°-115°.
4895 <i>E 0316.3</i>	-El Arenal, shelter dike, head.	39° 30.2' N 2° 44.9' E	Fl.(3)G. period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4.5s	26 8	5	Round green tower; 13.	
4895.5 <i>E 0316.6</i>	--Counterdike, head.	39° 30.7' N 2° 44.9' E	Fl.(2)R. period 8s fl. 0.4s, ec. 1.2s fl. 0.4s, ec. 6s	26 8	6	Red round tower on hut, red square; 20.	
4896 <i>E 0316.4</i>	-Inner pier, NE. corner.	39° 30.2' N 2° 44.9' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	26 8	6	Green round tower; 23.	
4896.5 <i>E 0316.5</i>	---SW. corner.	39° 30.1' N 2° 44.8' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	13 4	3	Red round tower; 10.	
4900 <i>E 0316.7</i>	-L'an Pastilla, outer breakwater, head.	39° 32.0' N 2° 43.1' E	Fl.(4)R. period 11s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6s	26 8	5	Red tower on concrete base; 20.	
4901 <i>E 0316.72</i>	-E. breakwater, head.	39° 32.0' N 2° 43.1' E	Fl.(4)G. period 11s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6s	20 6	3	Green tower; 16.	
4904 <i>E 0317</i>	-Cala d'en Rigo, 600 meters E. of Cala Portixol, E. jetty, head.	39° 33.6' N 2° 40.6' E	Fl.(2)G. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	3	Green pole; 13.	
4908 <i>E 0317.2</i>	--W. jetty, head.	39° 33.6' N 2° 40.6' E	Fl.(2)R. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	5	Red pole; 16.	
4912 <i>E 0316.8</i>	-Portixol, Pier de Troneras, head.	39° 33.6' N 2° 40.2' E	Fl.(3)R. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	5	Red round tower, white hut, red rectangular daymark; 19.	
4916 <i>E 0316.82</i>	--Sa Raqueta Pier.	39° 33.5' N 2° 40.1' E	Fl.(3)G. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	3	Green round tower, white hut, green triangular daymark; 19.	
4920 <i>E 0316.83</i>	--Inner breakwater, W. side.	39° 33.5' N 2° 40.0' E	Fl.(4)R. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	1	Red round tower, white hut, red triangular daymark; 13.	
4924 <i>E 0316.84</i>	---E. side.	39° 33.7' N 2° 40.2' E	Fl.(4)G. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	2	Green round tower, white hut, green triangular daymark; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-ISLAS BALEARES							
4932 <i>E 0318.8</i>	-Porto Pi.	39° 33.0' N 2° 37.5' E	Fl.(2)W. period 15s fl. 0.4s, ec. 3.3s fl. 0.4s, ec. 10.9s	135 41	22	Quadrangular stone tower; 125.	Visible outside Bahi de Palma 327°-040°30'.
	-RACON		M(- -) period 72s		22		
4934 <i>E 0319</i>	--Muelle de Poniente.	39° 33.2' N 2° 37.9' E	Fl.(2+1)R. period 12s fl. 1s, ec. 1s fl. 1s, ec. 3s fl. 1s, ec. 5s	16 5	3	Red pyramidal tower, green band; 13.	
4936 <i>E 0318</i>	--Dique del Oeste, head.	39° 33.2' N 2° 38.4' E	Fl.R. period 2.5s fl. 0.2s, ec. 2.3s	62 19	10	Red round tower, white hut, red rectangular daymark; 42.	
4940 <i>E 0318.3</i>	---Outer elbow.	39° 33.1' N 2° 38.4' E	Q.(3)W. period 10s	52 16	5	E. CARDINAL BYB; 33.	Obscured inside harbor. Siren: Mo.(P) ev. 30s (bl. 2s, si. 2s, bl. 6s, si. 2s, bl. 6s, si. 2s, bl. 2s, si. 8s). Radar reflector.
4941 <i>E 0318.71</i>	---Ro-Ro/Lo-Lo terminal, NE. corner.	39° 32.9' N 2° 38.0' E	Fl.(2)R. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	20 6	1	Red post; 13.	Synchronized with 4942.
4942 <i>E 0318.7</i>	----SW. corner.	39° 32.8' N 2° 37.8' E	Fl.(2)R. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	20 6	1	Red post; 13.	Synchronized with 4941.
4944 <i>E 0318.6</i>	---Inner elbow.	39° 32.7' N 2° 37.9' E	Q.(6)+L.F.W. period 15s	52 16	5	S. CARDINAL YB.	Visible 231°-092°.
4946 <i>E 0328.08</i>	--Muelle de Espera.	39° 33.9' N 2° 38.0' E	Fl.(2+1)R. period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 4.5s	20 6	1	Red column, green bands; 16.	
4948 <i>E 0328.3</i>	---Muelle de Amarres, NW. head.	39° 33.9' N 2° 38.0' E	Fl.(2)G. period 11s fl. 1s, ec. 3s fl. 1s, ec. 6s	16 5	1	Green column; 13.	
4949 <i>E 0328.31</i>	--Marina, outer mole, NE corner.	39° 34.0' N 2° 37.8' E	Fl.(2)R. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	13 4	1	Red post; 10.	
4950 <i>E 0328</i>	--Club Natico. ---No. "1" spur, head.	39° 33.9' N 2° 38.1' E	Fl.(2)R. period 14s fl. 1s, ec. 3s fl. 1s, ec. 9s	20 6	1	Red column; 16.	
4951 <i>E 0326.2</i>	--Muelle de Armamento, head.	39° 34.0' N 2° 38.3' E	Fl.(3)R. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	20 6	1	Red column; 13.	
4951.5 <i>E 0326</i>	--Muelle Pascadores, head.	39° 34.0' N 2° 38.4' E	Fl.(4)R. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	20 6	1	Red column; 13.	Visible 185°-085.5°.
4952 <i>E 0328.42</i>	---S. head.	39° 33.3' N 2° 37.7' E	Fl.(2+1)R. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 7.5s	16 5	1	Yellow column; 13.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-ISLAS BALEARES							
4960 <i>E 0328.38</i>	--Muelle de la Pedrera, N. head.	39° 33.6' N 2° 37.8' E	Fl.(4)R. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	17 5	3	Red column; 13.	
4964 <i>E 0328.39</i>	---S. head.	39° 33.4' N 2° 37.8' E	Fl.(4)R. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	16 5	3	Red column; 13.	
4968 <i>E 0328.34</i>	--La Coarentena, T-head, N. end.	39° 33.7' N 2° 37.8' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	17 5	1	Red metal column; 14.	
4972 <i>E 0328.36</i>	---S. head.	39° 33.7' N 2° 37.7' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	16 5	1	Red column; 3.	
4972 <i>E 0328.36</i>	---S. end.	39° 33.6' N 2° 37.2' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	16 5	1	Red metal column; 13.	
4976 <i>E 0322</i>	--Dique Este, SW. corner.	39° 33.5' N 2° 38.1' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	56 17	5	Green round tower, white hut, green triangular daymark; 49.	
4980 <i>E 0322.2</i>	---NW. corner.	39° 33.7' N 2° 38.0' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	26 8	3	Green column; 20.	Fl.(2)G. 7s 7m 1M and Fl.(2)G. 7s 7m 1M mark ends of wharf 318 meters NE. Fl.(3)G. 9s 7m 1M and Fl.(3)G. 9s 7m 1M mark ends of wharf 578 meters NE. Fl.(4)G. 11s 7m 1M marks end of wharf 850 meters NE.
4992 <i>E 0320</i>	---Spur, elbow.	39° 33.3' N 2° 37.8' E	Fl.(2)R. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	22 7	1	Red metal column; 16.	
4996 <i>E 0328.32</i>	--Jonquet, jetty, head.	39° 34.1' N 2° 37.9' E	Fl.(2+1)R. period 10s fl. 1s, ec. 1s fl. 1s, ec. 3s fl. 1s, ec. 3s	19 6	1	Red metal column, green band; 16.	
5000 <i>E 0328.7</i>	-Cala Nova, Yacht school, S. mole.	39° 33.0' N 2° 36.0' E	Fl.(2)R. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	5	Red column; 10.	
5004 <i>E 0328.75</i>	--N. mole.	39° 33.0' N 2° 36.0' E	Fl.(2)G. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	3	Green column; 10.	
5006 <i>E 0329</i>	--Yacht Harbor Pier, head.	39° 31.5' N 2° 32.6' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	23 7	4	Green column on white hut, green triangular daymark, point up; 19.	
5008 <i>E 0330</i>	-Cap de Cala Figuera.	39° 27.5' N 2° 31.4' E	Fl.(4)W. period 20s fl. 0.3s, ec. 3s fl. 0.3s, ec. 3s fl. 0.3s, ec. 3s fl. 0.3s, ec. 9.8s	148 45	15	Black and white tower, lined with stone on factory building; 79.	Aeromarine light. Siren: 2 bl. ev. 12s (bl. 2s, si. 2s, bl. 2s, si. 6s). Radiobeacon.
5012 <i>E 0332</i>	-Isla del Toro, on islet.	39° 27.8' N 2° 28.4' E	Fl.W. period 5s fl. 0.4s, ec. 4.6s	102 31	8	White conical tower.	
5012.5 <i>E 0332.5</i>	-Puerto Deportivo, Puerto Adriano, mole, head.	39° 29.4' N 2° 28.8' E	Fl.(2)G. period 6.5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4.5s	20 6	5	Green post; 7.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-ISLAS BALEARES							
5013 E 0333	-Santa Ponza, breakwater, head.	39° 30.9' N 2° 27.9' E	Fl.(3)G. period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4.5s	33 10	5	Green column on white hut; 16.	
5014 E 0333.2	--Punta de Caleta.	39° 30.8' N 2° 28.0' E	Fl.(3)R. period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4.5s	33 10	3	Red column on white hut; 13.	
5016 E 0334	-Cabo de la Mola.	39° 31.9' N 2° 21.8' E	Fl.(1+3)W. period 12s fl. 0.8s, ec. 3.2s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 3.2s	420 128	12	White column, black bands, on white square tower; 33.	Obscured 158°12'-304°24'.
5020 E 0336	-Puerto de Andraitx, mole, W. head.	39° 32.6' N 2° 22.8' E	Fl.(2)R. period 7.5s fl. 1s, ec. 1s fl. 1s, ec. 4.5s	39 12	3	Conical masonry tower, balcony; 30.	Visible 060°06'-103°54' and within port.
5022 E 0336.8	--Breakwater, extremity.	39° 32.8' N 2° 23.2' E	Fl.(2+1)G. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 6s fl. 0.5s, ec. 6s	20 6	3	Green tower, red band, triangular daymark.	
5024 E 0336.6	--New inner breakwater, head.	39° 32.8' N 2° 23.1' E	Fl.(4)R. period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	20 6	3	Red tower on white hut, red square; 13.	
5028 E 0337	--Inner mole, head.	39° 32.8' N 2° 23.2' E	Fl.G. period 2s fl. 0.5s, ec. 1.5s	22 7	3	Green tower.	
-Isla Dragonera:							
5032 E 0282	--Cabo Llebeix.	39° 34.5' N 2° 18.3' E	Fl.W. period 7.5s fl. 0.2s, ec. 7.3s	427 130	20	Masonry tower, building, red roof; 48.	Visible 313°-150°.
5036 E 0284	--Punta Tramontana.	39° 36.0' N 2° 20.4' E	Fl.(2)W. period 12s fl. 0.3s, ec. 2.7s fl. 0.3s, ec. 8.7s	219 67	14	Masonry tower, stone building, red tile; 49.	Visible 095°-230° and 346°-027°.
-Puerto de Soller:							
5040 E 0289	--Cap Gros.	39° 47.9' N 2° 41.0' E	Fl.(3)W. period 15s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 9.8s	394 120	18	White tower and house, red roof; 72.	Visible 054°-232°.
5044 E 0288	--Punta de la Creu, entrance, E. point.	39° 47.9' N 2° 41.4' E	Fl.W. period 2.5s fl. 0.5s, ec. 2s	115 35	13	White truncated conical tower, black bands; 43.	Visible 088°-160°.
5048 E 0290	-Entrance Range, front.	39° 47.6' N 2° 41.9' E	Q.R.	160 49	4	White round tower, aluminum diamond daymark; 23.	
5052 E 0290.1	--Rear, 36 meters 126°38' from front.	39° 47.6' N 2° 41.9' E	Iso.R. period 4s	196 60	4	White round tower, aluminum diamond daymark; 23.	
5056 E 0291	--Dique D.E., head.	39° 47.8' N 2° 41.6' E	F.R.	22 7	3	Red post; 16.	A F.R. light is shown on head of SE. mole.
5060 E 0293	--Muelle Comercial, elbow.	39° 47.9' N 2° 41.7' E	F.G.	19 6	3	Green lamppost; 16.	
5064 E 0293.2	---Head.	39° 47.9' N 2° 41.8' E	F.R.	19 6	3	Red lamppost; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-ISLAS BALEARES							
5068 <i>E 0296</i>	-Cabo de Formenter.	39° 57.7' N 3° 12.8' E	Fl.(4)W. period 20s fl. 0.2s, ec. 3.1s fl. 0.2s, ec. 3.1s fl. 0.2s, ec. 3.1s fl. 0.2s, ec. 9.9s	689 210	21	White tower, dwelling; 72.	
5072 <i>E 0298</i>	-Punta de la Avanzada.	39° 54.1' N 3° 06.7' E	Oc.(2)W. period 8s lt. 4.5s, ec. 1s lt. 1.5s, ec. 1s	95 29	15	White octagonal tower on rectangular dwelling; 59.	Visible 234°-272°.
	-El Puerto:						
5076 <i>E 0299</i>	--Dique Norte, outer spur, head.	39° 54.4' N 3° 05.2' E	Fl.(2)G. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	19 6	3	Green truncated conical tower; 16.	
5080 <i>E 0301</i>	--N. breakwater, head.	39° 54.4' N 3° 05.2' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	19 6	3	Black and white checkered tower; 16.	
5084 <i>E 0300</i>	--S. breakwater, head.	39° 54.3' N 3° 05.2' E	Fl.(2)R. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	7 2	2	Red column; 3.	
5086 <i>E 0303.7</i>	-Punta Sabate.	39° 53.6' N 3° 11.6' E	Fl.(3)W. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	154 47	5	White triangular tower, black band; 39.	
5088 <i>E 0302</i>	-Puerto del Barcares, Dique Norte, head.	39° 51.9' N 3° 07.2' E	Q.G.	20 6	3	Black and white checkered square tower; 16.	
5090 <i>E 0303</i>	-Puerto de Bonaire, dike, head.	39° 52.1' N 3° 08.7' E	Fl.R. period 6s fl. 1s, ec. 5s	23 7	5	Red column masonry base; 13.	
5091 <i>E 0303.2</i>	--Muelle de Ribera.	39° 52.1' N 3° 08.7' E	Fl.(2)G. period 12s fl. 1s, ec. 2s fl. 1s, ec. 8s	16 5	5	Green column on masonry base; 13.	
PUERTO DE ALCUDIA							
5096 <i>E 0306</i>	-Muelle commercial, head.	39° 49.9' N 3° 08.5' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	34 10	5	Green tower, green triangular daymark, point up; 16.	
5097 <i>E 0306.5</i>	-Meulle de Poniente	39° 50.1' N 3° 08.3' E	Fl.(2+1)R. period 12s fl. 1s, ec. 1s fl. 1s, ec. 3s fl. 1s, ec. 5s	13 4	3	Red tower, green band; 10.	
5098 <i>E 0307</i>	--Muelle Viejo, head.	38° 50.3' N 3° 08.1' E	Fl.(4)G. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	13 4	1	Green pyramidal tower; 10.	
5099 <i>E 0306.6</i>	--Club de Amigos de Alcudia, dike, head.	39° 50.2' N 3° 08.1' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	16 5	3	Red pyramidal tower; 10.	
5100 <i>E 0304</i>	-Isla Aucanada, Bahía de Alcudia, N. side.	39° 50.2' N 3° 10.3' E	Fl.W. period 5s fl. 1.2s, ec. 3.8s	82 25	11	White tower and dwelling; 49.	
5104 <i>E 0307.1</i>	-Ca'n Picafort, pier, head.	39° 46.0' N 3° 09.5' E	Q.(2)R. period 4s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 2.5s	26 8	5	Red metal tower; 13.	Fl.(2)G. 6.5s marks head of contradike.
5105 <i>E 0307.16</i>	-Escuy C'an Barret.	39° 46.1' N 3° 09.5' E	Q.(3)W. period 6s	10 3	4	E. CARDINAL BYB, beacon, topmark.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-ISLAS BALEARES							
5107 E 0307.17	-Puerto Deportivo Serranova, breakwater, head.	39° 44.4' N 3' 13.5' E	Fl.(4)R. period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	20 6	4	Red tower; 7.	
5107.5 E 0307.19	-Inner breakwater.	39° 44.4' N 3' 13.4' E	Fl.(3)G. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	10 3	3	Green tower; 7.	
5108 E 0307.2	-Colonia de San Pedro, breakwater, head.	39° 44.3' N 3' 16.6' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	20 6	3	Red round tower; 10.	
5112 E 0307.4	-Cabo Farruch, landing pier, head.	39° 46.5' N 3' 20.0' E	Q.(2)R. period 6s fl. 0.4s, ec. 0.4s fl. 0.4s, ec. 4.8s	25 8	3	Round tower, rectangular base, red checkered; 21.	
5116 E 0308	-Cabo de Pera.	39° 43.0' N 3' 28.7' E	Fl.(2+3)W. period 20s fl. 0.2s, ec. 1.8s fl. 0.2s, ec. 1.8s fl. 0.2s, ec. 6.6s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 6.5s	249 76	16	White tower, dwelling, red roof; 69.	Visible 148°-010°.
5120 E 0308.2	-Cala Ratjada, mole, head.	39° 42.6' N 3' 27.9' E	Fl.G. period 2s fl. 0.2s, ec. 1.8s	39 12	3	Green tower on hut, green triangular daymark, point up; 10.	
5124 E 0308.8	Cala Bona.	39° 36.8' N 3' 23.5' E	F.R.	12 4	2	Red tower on white hut, red square; 10.	
5128 E 0308.7	--Dique Norte, head.	39° 36.8' N 3' 23.6' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	16 5	3	Round tower on white hut, green triangular daymark, point up.	
5132 E 0308.6	-Cala Bona, Dique Sur, head.	39° 36.8' N 3' 23.6' E	Fl.(2)R. period 6s fl. 0.4s, ec. 1.6s fl. 0.4s, ec. 3.6s	16 5	4	Round tower on white hut, red square; 7.	
5136 E 0309	-Cala Manacor (Porto Cristo), at entrance.	39° 32.2' N 3' 20.5' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	65 20	4	Tower, black and white stripes; 18.	
5140 E 0309.4	--Punta des Pelats, mole, head.	39° 32.5' N 3' 20.3' E	Fl.(3)R. period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4.5s	16 5	3	Red octagonal tower; 7.	
5144 E 0310	-Punta de Farola, on Puerto Colom, E. entrance point.	39° 24.9' N 3' 16.3' E	Fl.(2)W. period 10s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 7.3s	137 42	10	Tower, black and white bands, white house with red roof; 82.	Visible 207°-006°.
5148 E 0310.4	-Punta de la Bateria.	39° 25.0' N 3' 16.2' E	Fl.(4)R. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	39 12	4	Red tower on white hut, red square; 24.	
5152 E 0311	--SE. corner of mole.	39° 25.3' N 3' 15.8' E	Fl.(2)R. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	15 5	3	Red column on white hut, red square; 8.	
5154 E 0311.2	--Punta de sa Sinia, breakwater, head.	39° 25.5' N 3' 15.8' E	Oc.R. period 6s lt. 4s, ec. 2s		2	Red column.	
5156 E 0311.4	-Cala Llonga.	39° 22.1' N 3' 14.1' E	Fl.(1+2)W. period 20s	56 17	5	White column, black stripes; 18.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-ISLAS BALEARES							
5160 <i>E 0311.8</i>	-Puerto Petro, on Punta Sa Torre.	39° 21.4' N 3' 13.0' E	Fl.(3+1)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s fl. 0.5s, ec. 3s	72 22	7	Tower, white and black stripes; 30.	
5162 <i>E 0311.9</i>	--Dique Calo des Moix, head.	39° 21.7' N 3' 12.8' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	23 7	5	Red column; 10.	
5163 <i>0312</i>	--Calo des Moix, pier, head.	39° 21.6' N 3' 12.7' E	Fl.(4)R. period 12s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 8.5s	20 6	2	Red column on white hut, red square daymark; 16.	
5164 <i>E 0312.2</i>	--Mole, head.	39° 21.8' N 3' 12.8' E	Fl.(2)R. period 6s fl. 0.4s, ec. 1.2s fl. 0.4s, ec. 4s	20 6	3	Red column on white hut, red square; 16.	
5168 <i>E 0312.3</i>	-Punta Sa Platja, 640 meters 352° from mole, head.	39° 21.8' N 3' 12.8' E	Q.G.	21 6	3	STARBOARD (A) G, beacon, topmark; 13.	
5172 <i>E 0312.6</i>	-Torre d'en Beu, on Cala Figuera de Santany, entrance, N. side.	39° 19.8' N 3' 10.7' E	Fl.W. period 3s fl. 0.8s, ec. 2.2s	105 32	12	Black and white striped octagonal tower; 21.	
5176 <i>E 0313</i>	-Jetty, head.	39° 20.0' N 3' 10.0' E	Fl.(2)R. period 6s fl. 0.4s, ec. 1.2s fl. 0.4s, ec. 4s	21 6	3	PORT (A) R, beacon, topmark; 16.	
5180 <i>E 0366</i>	Isla del Aire.	39° 48.0' N 4' 17.7' E	Fl.W. period 5s fl. 0.2s, ec. 4.8s	174 53	18	Tower, black and white bands, white house; 125.	Obscured 111°-197°.
5182 <i>E 0367</i>	-Bajo es Caragol.	39° 48.5' N 4' 15.2' E	Q.(6)+L.Fl.W. period 15s	33 10	5	S. CARDINAL YB, beacon, topmark.	
ISLA DE MENORCA:							
5184 <i>E 0342</i>	-Cabo D'Artrutx.	39° 55.4' N 3' 49.5' E	Fl.(3)W. period 10s fl. 0.2s, ec. 1.8s fl. 0.2s, ec. 1.8s fl. 0.2s, ec. 5.8s	148 45	19	White tower, black bands, on white hut; 111.	Visible 267°-158°.
5188 <i>E 0344</i>	-Ciudadela, Calo Frares, W. side of entrance.	39° 59.8' N 3' 49.4' E	Oc.(2+3)W. period 14s lt. 3s, ec. 1s lt. 1s, ec. 1s lt. 3s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s	69 21	14	White tower, black bands on white house; 43.	Visible 004°-094°.
5192 <i>E 0345</i>	--Punta El Bancal, on N. bank about 173 meters 061° from Ciudadela.	39° 59.9' N 3' 49.5' E	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	33 10	3	Red tower on white hut, red square; 13.	
5196 <i>E 0345.4</i>	--San Nicolas, on S. bank 325 meters 067°36' from Ciudadela.	39° 59.9' N 3' 49.5' E	Fl.G. period 3s fl. 1s, ec. 2s	33 10	3	White quadrangular tower, green triangular daymark, point up; 13.	
5200 <i>E 0345.6</i>	--Sa Trona, on S. bank 537 meters 062°06' from Ciudadela.	40° 00.0' N 3' 49.8' E	Fl.(3)G. period 6s fl. 0.4s, ec. 0.4s fl. 0.4s, ec. 0.4s fl. 0.4s, ec. 4s	24 7	2	Green column beside white hut, green triangular daymark, point up; 13.	
5204 <i>E 0345.9</i>	--Cala d'en Busquets, E. point, 600 meters 052° from Ciudadela.	40° 00.0' N 3' 49.8' E	Dir.Fl.W.R.G. period 5s fl. 1s, ec. 4s	29 9	W. 6 R. 4 G. 3	White square tower; 11.	G. 039°54'-041°24', W.-043°12', R.-044°42'.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-ISLAS BALEARES							
5208 <i>E 0345.8</i>	--N. bank, 654 meters 057°24' from Ciudadela.	40° 00.0' N 3' 49.8' E	Fl.(4)R. period 12s fl. 0.7s, ec. 1s fl. 0.7s, ec. 1s fl. 0.7s, ec. 1s fl. 0.7s, ec. 6.2s	35 11	3	Red column on white tower, red rectangular daymark; 14.	
5212 <i>E 0346.4</i>	--Baliza de la Muralla.	40° 00.2' N 3' 50.2' E	Dir.Oc.(2)W.R.G. period 9.5s	28 9	W. R. G. 3 3	White square tower; 19.	R. 062°24'-062°54', W.-063°24', G.-063°54'.
5216 <i>E 0346.2</i>	--Varadero, on N. bank 832 meters 059°12' from Ciudadela.	40° 00.1' N 3' 49.9' E	F.R.	20 6	2	Red tower on white hut, red square daymark; 16.	
5220 <i>E 0348</i>	-Punta Nati.	40° 03.1' N 3' 49.5' E	Fl.(3+1)W. period 20s fl. 0.4s, ec. 2.1s fl. 0.4s, ec. 2.1s fl. 0.4s, ec. 7.1s fl. 0.4s, ec. 7.1s	138 42	16	White truncated pyramidal tower, white cupola, aluminum lantern; 62.	Visible 039°-162°.
5224 <i>E 0350</i>	-Cabo de Caballeria.	40° 05.4' N 4' 05.6' E	Fl.(2)W. period 10s fl. 0.1s, ec. 1.9s fl. 0.1s, ec. 7.9s	310 94	22	White tower, dwelling; 49.	Visible 074°-292°.
	-RACON		B(-...) period 72s				
5226 <i>E 0350.5</i>	-Cap de sa Pared.	40° 03.8' N 4' 08.0' E	Fl.W. period 2s fl. 0.5s, ec. 1.5s	95 29	8	Tower on hut, white and black bands.	
5228 <i>E 0351</i>	-Puerto de Fornells Range, front.	40° 02.9' N 4' 08.2' E	Q.R.	45 14	4	White pyramidal tower; 20.	A Fl.G. light is located on head of Dique de Levante.
5232 <i>E 0351.1</i>	--Rear, 110 meters 178°30' from front.	40° 02.9' N 4' 08.2' E	Iso.R. period 4s	76 23	8	White pyramidal tower; 30.	
5236 <i>E 0352</i>	-Cabo Favaritx.	39° 59.8' N 4' 16.0' E	Fl.(1+2)W. period 15s fl. 0.3s, ec. 5.7s fl. 0.3s, ec. 2.7s fl. 0.3s, ec. 5.7s	154 47	16	Tower, white and black stripes, attached to white dwelling; 92.	
5238 <i>E 0355</i>	-Punta del Espero.	39° 52.6' N 4' 19.6' E	Fl.(1+2)W. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10s	167 51	8	White round tower, black bands; 36.	
	-Puerto de Mahon:						
5240 <i>E 0354</i>	--Punta San Carlos.	39° 51.9' N 4' 18.4' E	Oc.(2)W. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	72 22	12	White round tower, black bands, white square base; 49.	Obscured 143°-183°. Radiobeacon.
5252 <i>E 0356</i>	--Punta Lazareto.	39° 52.6' N 4' 18.2' E	Fl.(3)G. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	42 13	4	Tower and white hut, green triangular daymark, point up; 26.	
5256 <i>E 0358</i>	--Punta de Ne Cafayes (Cala Fonts) (Villacarlos).	39° 53.0' N 4' 17.7' E	Fl.(3)R. period 9s	27 8	3	Red tower on white hut, red square.	
5260 <i>E 0359</i>	--Isla Plana de Mahan, S. point.	39° 53.0' N 4' 18.0' E	Fl.(4)G. period 11s	30 9	1	Green round tower, white top and base; 20.	
5264 <i>E 0360</i>	--Punta de Villacarlos.	39° 53.1' N 4' 17.4' E	Fl.(4)R. period 11s	34 10	3	Red tower on white hut, red square; 12.	
5268 <i>E 0361</i>	--Isla del Hospital.	39° 53.2' N 4' 17.3' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	43 13	3	Green tower on white hut, green triangular daymark, point up; 42.	
5272 <i>E 0361.4</i>	---On Punta Sa Cova, N. part.	39° 53.3' N 4' 17.3' E	Oc.R. period 4s lt. 3s, ec. 1s	52 16	3	Red round tower; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-ISLAS BALEARES							
5276 <i>E 0361.6</i>	--Punta de Sa Bassa.	39° 53.4' N 4° 17.4' E	Oc.G. period 4s	31 9	3	Green tower on white hut, green triangular daymark, point up; 10.	
5280 <i>E 0362.4</i>	--Isla del Pinta, S. point.	39° 53.6' N 4° 16.3' E	Fl.(2)G. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	13 4	3	STARBOARD (A) G, metal post, topmark; 10.	
5284 <i>E 0362</i>	--Punta de Cala Figuera.	39° 53.5' N 4° 16.6' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	23 7	4	Metal post, red square; 16.	
5288 <i>E 0364</i>	--Cala Taulera, I. Lazaretto, E. point.	39° 52.7' N 4° 18.4' E	Q.(3)W. period 10s	23 7	1	E. CARDINAL BYB, round tower, topmark; 20.	
5292 <i>E 0364.2</i>	--Canal de Alfonso XII, E. head.	39° 52.9' N 4° 18.3' E	Q.(2)R. period 6s fl. 0.3s, ec. 0.7s fl. 0.3s, ec. 4.7s	23 7	1	Red round tower; 20.	
5296 <i>E 0364.4</i>	---W. head.	39° 52.9' N 4° 18.2' E	Q.R.	23 7	1	Red round tower; 20.	
SPAIN-MEDITERRANEAN SEA							
5300 <i>E 0176</i>	Cabo de la Nao.	38° 43.8' N 0° 14.1' E	Fl.W. period 5s fl. 0.2s, ec. 4.8s	400 122	23	White octagonal tower, dwelling; 66.	Visible 190°-049°. Radiobeacon.
JAVEA:							
5304 <i>E 0179</i>	--Outer mole, head.	38° 47.6' N 0° 11.3' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	36 11	5	Green truncated tower, white base; 20.	
5308 <i>E 0179.4</i>	--Inner mole, head.	38° 47.7' N 0° 11.2' E	Fl.(2)R. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	30 9	4	Red truncated tower, white base; 20.	
5312 <i>E 0180</i>	Cabo de San Antonio.	38° 48.1' N 0° 11.8' E	Fl.(4)W. period 20s fl. 0.2s, ec. 3.1s fl. 0.2s, ec. 3.1s fl. 0.2s, ec. 3.1s fl. 0.2s, ec. 9.9s	574 175	26	White tower and dwelling; 56.	Signal station.
DENIA:							
5316 <i>E 0186</i>	--Range, pier, head, front.	38° 50.3' N 0° 06.9' E	Fl.R. period 2.5s fl. 1s, ec. 1.5s	33 10	4	Metal post with platform; 33.	Visible 198°-258°.
5320 <i>E 0186.1</i>	--Rear, 150 meters 228° from front.	38° 50.1' N 0° 06.8' E	Oc.R. period 6s lt. 4.5s, ec. 1.5s	46 14	4	Metal post with platform; 33.	Visible 198°-258°.
5324 <i>E 0184</i>	--Dique Norte, head.	38° 50.8' N 0° 07.6' E	Fl.(3)G. period 11.5s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 6s	43 13	5	Octagonal tower, upper part green, lower part white; 22.	
5328 <i>E 0187</i>	--Dique Norte, elbow.	38° 50.6' N 0° 07.6' E	Fl.G. period 2s	13 4	3	Iron tower; 10.	
5329 <i>E 0187.5</i>	--Inner jetty, head.	38° 50.5' N 0° 07.1' E	Fl.W. period 2s fl. 0.5s, ec. 1.5s	10 3	3	White octagonal tower; 10.	Visible 226°-134°30'.

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SPAIN-MEDITERRANEAN SEA							
5332 <i>E 0185</i>	-Dique Sur, head.	38° 50.6' N 0° 07.4' E	Fl.(2)R. period 9s fl. 0.5s, ec. 2s fl. 0.5s, ec. 6s	30 9	5	Octagonal tower, upper part red, lower part white; 19.	
5333 <i>E 0188</i>	--Elbow of Dique Sur.	38° 50.5' N 0° 07.3' E	Fl.(4)R. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	16 5	4	Octagonal tower, upper part red, lower part white; 10.	
5334 <i>E 0188.5</i>	---Jetty, head.	38° 50.6' N 0° 07.2' E	Iso.R.				
5338 <i>E 0190</i>	-Club Nautico de Oliva, shelter dique.	38° 55.9' N 0° 05.6' W	Fl.(2)G. period 5s	23 7	4	White and green triangular tower.	
5338.5 <i>E 0190.2</i>	--Contradique.	38° 55.7' N 0° 05.7' W	Fl.(3)R. period 12s	23 7	4	White and red triangular tower; 13.	
GANDIA:							
5340 <i>E 0194</i>	-N. mole, head.	38° 59.8' N 0° 08.7' W	Fl.G. period 4s fl. 1s, ec. 3s	49 15	10	Green triangular concrete tower; 39.	
5348 <i>E 0196</i>	-S. mole, head.	38° 59.8' N 0° 09.1' W	Fl.(3)R. period 11s	16 5	2	Concrete column on red hut; 10.	
5352 <i>E 0197</i>	Cullera, N. jetty, head.	39° 09.1' N 0° 14.0' W	Fl.G. period 3s fl. 0.3s, ec. 2.7s	33 10	5	Green tower; 23.	
5356 <i>E 0197.2</i>	-S. jetty, head.	39° 09.0' N 0° 14.1' W	Fl.(2)R. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	33 10	3	Red tower; 23.	
5360 <i>E 0198</i>	Cabo Cullera.	39° 11.1' N 0° 13.0' W	Fl.(3)W. period 20s fl. 0.3s, ec. 3.7s fl. 0.3s, ec. 3.7s fl. 0.3s, ec. 11.7s	92 28	25	White conical tower; 52.	
5364	-Manises AVIATION LIGHT.	39° 29.6' N 0° 28.2' W	Al.Fl.W.G. period 4s	213 65	15	Control tower; 49.	Occasional.
VALENCIA:							
5368 <i>E 0200</i>	-Dique del Norte.	39° 26.9' N 0° 18.1' W	Fl.(4+1)W. period 20s fl. 0.4s, ec. 1.8s fl. 0.4s, ec. 1.8s fl. 0.4s, ec. 1.8s fl. 0.4s, ec. 6.3s fl. 0.4s, ec. 6.3s	98 30	24	Pyramidal masonry tower, octagonal base; 72.	
5372 <i>E 0200.4</i>	-Nuevo Dique del Este, head.	39° 26.0' N 0° 18.2' W	Fl.G. period 5s fl. 1s, ec. 4s	69 21	5	Round green post on white base; 30.	
5374 <i>E 0201.15</i>	-Muelle Darsena Sur, breakwater, head.	39° 26.1' N 0° 18.9' W	Fl.(3)R. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	43 13	3	Red round tower; 13.	
5376 <i>E 0201.5</i>	-Nuevo Muelle Sur.	39° 26.4' N 0° 19.3' W	Fl.(3)G. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	20 6	1	Green conical tower; 13.	
5380 <i>E 0201.2</i>	-Dique del Este, elbow.	39° 26.5' N 0° 18.6' W	Q.R.	16 5	1	Round tower; 10.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-MEDITERRANEAN SEA							
5382 <i>E 0200.8</i>	--N. Central Pier.	39° 26.8' N 0° 18.3' W	Iso. W.R.G. period 4s	20 6	1		G. 350°-353°, W. -005°, R. -008°.
5384 <i>E 0201.4</i>	--S. head.	39° 26.5' N 0° 18.7' W	Fl.(2)G. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	3	White column, green top; 16.	
5388 <i>E 0202</i>	-Dique Del Sur, E. head.	39° 26.6' N 0° 19.0' W	Fl.(2+1)R. period 14.5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s fl. 0.5s, ec. 9s	33 10	3	Green column, red bands, on white base; 16.	
5400 <i>E 0203.4</i>	-Mulle de Levante, head.	39° 26.8' N 0° 18.9' W	Fl.(2+1)G. period 14.5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s fl. 0.5s, ec. 9s	16 5	3	Green tower, red band; 10.	
5404 <i>E 0204</i>	-Espigon No. "1", head, NE. corner.	39° 27.0' N 0° 19.2' W	Fl.(4)R. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	20 6	1	Red masonry tower; 13.	
5408 <i>E 0204.2</i>	--SE. corner.	39° 26.9' N 0° 19.2' W	Oc.G. period 4s lt. 3s, ec. 1s	19 6	2	Post, black and white bands; 13.	
5412 <i>E 0205</i>	-Muelle de Poniente, head.	39° 27.3' N 0° 19.3' W	Fl.R. period 2s fl. 0.5s, ec. 1.5s	16 5	2	Red masonry tower; 10.	
5416 <i>E 0207</i>	-Transversal de Poniente.	39° 27.4' N 0° 19.5' W	Fl.(2)R. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	16 5	1	Red masonry tower; 10.	Lit when bridge is open. Synchronized with 5417.
5417 <i>E 0207.5</i>	--NW corner.	39° 27.5' N 0° 19.6' W	Fl.(2)R. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s		1	Red support.	Lit when bridge is open. Synchronized with 5416.
5420 <i>E 0206</i>	-Transversal de Levante.	39° 27.5' N 0° 19.5' W	Fl.(3)G. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	16 5	1	Green masonry tower; 10.	Lit when bridge is open. Synchronized with 5421.
5421 <i>E 0206.5</i>	--NW corner.	39° 27.5' N 0° 19.5' W	Fl.(3)G. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s		1	Green support.	Lit when bridge is open. Synchronized with 5420.
5421.5 <i>E 0201.1</i>	-Contradique, S. head.	39° 25.4' N 0° 18.8' W	Q.(6)+L.Fl.W. period 15s	56 17	3	S. CARDINAL YB, tower, topmark; 13.	
5421.6 <i>E 0201.11</i>	--E. head.	39° 25.8' N 0° 18.6' W	Fl.(2)R. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	56 17	3	Red tower; 13.	
5422 <i>E 0208.6</i>	-Nautical Club, E. Dique.	39° 25.5' N 0° 18.5' W	Fl.(2)G. period 7s	36 11	3	Green round tower; 13.	Fl.(3)G. shown on pier 380 meters WNW.
5423 <i>E 0208.65</i>	--Contradique.	39° 26.2' N 0° 19.9' W	Fl.(2)R. period 7s	26 8	2	Red post; 10.	Fl.(4)G. and Fl.(3)R. mark pier heads in harbor.
5424 <i>E 0209.6</i>	-Port Soplaya, S. head.	39° 30.6' N 0° 19.1' W	Fl.(4)R. period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	26 8	4	White tower, red bands; 16.	
5424.5 <i>E 0209.7</i>	--NE. head.	39° 30.6' N 0° 19.0' W	Fl.G. period 3.5s fl. 0.2s, ec. 3.3s	30 9	4	White tower, green bands; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-MEDITERRANEAN SEA							
5425 E 0210	-Puerto Deportivo Puebla de Farnals.	39° 33.5' N 0° 17.0' W	Fl.(3)G. period 12.5s	30 9	5	White and green tower; 16.	Fl.R. 3.5s shown from S. head of contradique.
SAGUNTO:							
5428 E 0212.3	-Escollera de Levante, head.	39° 38.6' N 0° 12.5' W	Q.G.	46 14	3	Green tower; 36.	
5431 E 0214.2	-Muelle Sur, head.	39° 38.8' N 0° 12.8' W	Fl.(4)R. period 11s	42 13	3	Red round masonry tower; 33.	
5432 E 0214	--Corner.	39° 38.8' N 0° 12.8' W	Fl.R. period 5s fl. 0.5s, ec. 4.5s	20 6	3	Concrete tower; 10.	
5440 E 0214.6	-Darsena Pesquera, breakwater, head.	39° 39.1' N 0° 12.7' W	Fl.(4)G. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	20 6	1	Green truncated tower; 13.	
5442 E 0214.7	--Contradike, head.	39° 39.2' N 0° 12.6' W	Fl.(2)R. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	20 6	1	Red truncated tower; 13.	
5448 E 0212.6	--Dolphin, 73 meters SE.	39° 38.7' N 0° 11.6' W	Q.(3)W. period 10s	39 12	5	E. CARDINAL BYB, post, topmark.	
-Puerto de Siles:							
5449 E 0217	--Breakwater, head.	39° 40.4' N 0° 12.0' W	Fl.G. period 4s fl. 0.5s, ec. 4.5s	23 7	6	Green conical turret; 10.	
5449.5 E 0217.2	---Corner of breakwater.	39° 40.4' N 0° 12.0' W	Fl.(3)G. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	13 4	3	Green conical turret; 7.	
5450 E 0217.4	--Contradike, S. head.	39° 40.4' N 0° 12.0' W	Fl.R. period 4s fl. 0.5s, ec. 3.5s	16 5	4	Red conical turret; 10.	
5450.5 E 0217.5	---N. head.	39° 40.5' N 0° 12.0' W	Fl.(2)R. period 5s fl. 0.5s, ec. 1s	13 4	3	Red conical turret.	
5452 E 0216	Cabo Canet.	39° 40.4' N 0° 12.2' W	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	108 33	23	Brick tower on white base, gray lantern; 98.	
5454 E 0218	Nules.	39° 49.7' N 0° 06.5' W	Oc.(2)W. period 11s	125 38	14	Brown square masonry tower; 118.	
5456 E 0219	-Dique de Levante, head.	39° 51.2' N 0° 04.1' W	Fl.(3)G. period 8s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 3s	39 12	5	Green structure; 26.	Q.(3)W. 3M marks end of sand retention jetty 0.3 mile NNE.
5460 E 0220	--Muelle Transversal, head.	39° 51.4' N 0° 04.2' W	Fl.G. period 4s fl. 1s, ec. 3s	26 8	3	Green structure; 20.	
5464 E 0221	-Dique de Poniente, head.	39° 51.3' N 0° 04.2' W	Fl.(2)R. period 5s	33 10	3	Red structure on white hut; 26.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-MEDITERRANEAN SEA							
REFINERIA DE CASTELLON:							
5476 E 0224	-Terminal platform.	39° 56.7' N 0° 01.6' E	Oc.(2)Y. period 14s lt. 8s, ec. 2s lt. 2s, ec. 2s	42 13	4	Yellow post; 20.	Siren: Mo.(U)
CASTELLON DE LA PLANA:							
5480 E 0226	-Dique de Levante, head.	39° 58.2' N 0° 01.7' E	Oc.(1+2)W. period 10s lt. 3s, ec. 1s	105 32	14	White round tower; 91.	Radiobeacon 750 meters 267°.
5488 E 0226.2	-Muelle Transversal, S. corner.	39° 58.2' N 0° 01.3' E	Fl.G. period 4s fl. 1s, ec. 3s	20 6	3	Green tower; 13.	
5492 E 0226.4	--Center of S. face.	39° 58.3' N 0° 01.3' E	Fl.(2)G. period 5s	16 5	3	Green tower; 14.	
5496 E 0229.2	-Darsen Pesquera, entrance, W. side.	39° 58.1' N 0° 01.2' E	Fl.(2+1)R. period 12s	15 5	3	Red tower, green band; 14.	
5504 E 0222	Islas Columbretes.	39° 53.9' N 0° 41.2' E	Fl.(3+1)W. period 22s fl. 0.2s, ec. 2.6s fl. 0.2s, ec. 2.6s fl. 0.2s, ec. 8s fl. 0.2s, ec. 8s	279 85	21	White conical tower, dwelling; 67.	
RACON			C(- • - •) period 70s		2		
5508 E 0222.2	-Punta Michorn.	39° 53.6' N 0° 41.2' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	160 49	4	White octagonal tower; 19.	
5512 E 0222.4	-Punta Norte.	39° 54.0' N 0° 41.2' E	Fl.(2)R. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 6.5s	219 67	3	White octagonal tower; 19.	
5516 E 0230	Cabo de Oropesa.	40° 04.9' N 0° 09.0' E	Fl.(3)W. period 15s fl. 0.3s, ec. 2.7s fl. 0.3s, ec. 2.7s fl. 0.3s, ec. 8.7s	79 24	21	Tower, white dwelling; 43.	
5518 E 0231.6	Cabo de Irta.	40° 15.8' N 0° 18.2' E	Fl.(4)W. period 18s	108 33	14	Square tower on white building; 92.	Visible 195°-057°.
5520 E 0232	Peniscola.	40° 21.5' N 0° 24.5' E	Fl.(2+1)W. period 15s fl. 0.4s, ec. 2.6s fl. 0.4s, ec. 5.6s fl. 0.4s, ec. 5.6s	183 56	23	Octagonal tower, white dwelling; 36.	Visible 184°-040°.
5524 E 0234.4	-Fish pier, head.	40° 21.2' N 0° 24.2' E	F.R.	23 7	3	Red column; 20.	
5528 E 0234	-E. breakwater.	40° 21.2' N 0° 24.2' E	Fl.G. period 4s fl. 1s, ec. 3s	49 15	4	Green column; 23.	
5532 E 0238	Benicarlo, on E. breakwater, head.	40° 24.6' N 0° 26.2' E	Fl.(2)G. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	43 13	5	Green tower; 16.	
5536 E 0239	-On S. breakwater, head.	40° 24.7' N 0° 26.1' E	Fl.(3)R. period 9s	26 8	3	Red octagonal tower; 13.	Fl.(2)R. 6s 3M shown from SE. corner.
5540 E 0239.4	-Fish pier, head.	40° 24.8' N 0° 26.0' E	Fl.(2+1)G. period 15s	24 7	3	Green round tower; 10.	
5544 E 0244	Vinaroz, E. mole, head.	40° 27.5' N 0° 28.6' E	Fl.G. period 5s fl. 1s, ec. 4s	46 14	8	Green round tower; 33.	

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SPAIN-MEDITERRANEAN SEA							
5548 <i>E 0248</i>	-Transverse mole, head.	40° 27.9' N 0° 28.6' E	Fl.(3)G. period 9s	28 9	3	Green round tower; 19.	
5552 <i>E 0246</i>	-W. mole, head.	40° 27.8' N 0° 28.6' E	Fl.R. period 5s fl. 1s, ec. 4s	23 7	4	Red octagonal tower; 10.	
5556 <i>E 0370.3</i>	-Darsena Departivo, Dique Sur, head.	40° 33.2' N 0° 32.0' E	Fl.(2)R. period 10s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	26 8	4	Red truncated pyramidal tower; 13.	
5560 <i>E 0370.35</i>	--Contradique de Levante, head.	40° 33.2' N 0° 32.0' E	Fl.G. period 4s fl. 1s, ec. 3s	23 7	3	Green truncated pyramidal tower; 10.	
5564 <i>E 0370.6</i>	Cement wharf.	40° 34.4' N 0° 33.4' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	26 8	3	White tower, red top; 7.	
PUERTO DE LOS ALFAQUES:							
5568 <i>E 0370</i>	-Punta de la Bana, 183 meters from extremity.	40° 33.6' N 0° 39.8' E	Fl.(2)W.R. period 12s fl. 1s, ec. 2s fl. 1s, ec. 8s	89 27	W. 12 R. 8	White round tower, black bands; 85.	W. 232°36'-199°24', R.-232°36'.
5572 <i>E 0371.2</i>	-Punta Corballera.	40° 34.2' N 0° 36.3' E	Fl.W.G. period 3s fl. 0.3s, ec. 2.7s	43 13	W. 6 G. 4	Black round truncated tower; 40.	G. 000°-180°, W.-000°.
5576 <i>E 0373</i>	San Carlos de la Rapita, Punta Sanieta.	40° 36.5' N 0° 35.2' E	Oc.(4)R. period 10s	33 10	11	White round tower; 22.	
5580 <i>E 0374</i>	-Dique de Abrigo, head.	40° 36.6' N 0° 36.3' E	Fl.(2)R. period 8s fl. 1s, ec. 1.5s fl. 1s, ec. 4.5s	26 8	6	Red pyramidal tower, white base; 13.	F.R. at head of pier extending from root of Dique de Abrigo.
5584 <i>E 0374.2</i>	-Dique de Levante.	40° 36.9' N 0° 36.0' E	Fl.(3)G. period 10.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 4.5s	19 6	4	Green tower; 13.	
5588 <i>E 0374.4</i>	-Dique de Abrigo, extremity of spur.	40° 37.0' N 0° 35.9' E	Oc.R. period 4s lt. 3s, ec. 1s	16 5	2	Red tower; 13.	
5592 <i>E 0375</i>	Muelle de hierro.	40° 36.2' N 0° 41.4' E	Q.W.	36 11	3	N. CARDINAL BY, tower, topmark.	Visible 082°-229°.
5598 <i>E 0377</i>	Cabo Tortosa.	40° 43.0' N 0° 55.8' E	Fl.W. period 6s fl. 1s, ec. 5s	59 18	14	Black metal framework tower and platform, aluminum top, on piles; 59.	Radar reflector.
RACON				T(-)			
5599 <i>E 0376</i>	Rio Ebro.	40° 43.2' N 0° 51.5' E	Fl.(2)W. period 15s fl. 0.5s, ec. 3.5s fl. 0.5s, ec. 10.5s	43 13	3	Metal tower, black and white bands; 69.	
5600 <i>E 0380</i>	Punta del Fangal.	40° 47.2' N 0° 46.2' E	Fl.(2+1)W.R. period 24s fl. 1s, ec. 1.5s fl. 1s, ec. 4.5s fl. 1s, ec. 15s	66 20	W. 12 R. 8	White round tower, red band; 59.	W. 019°24'-301°36', R.-019°24'.
5604 <i>E 0380.6</i>	-La Ampolla, breakwater, head.	40° 49.0' N 0° 43.0' E	Fl.(2)R. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	13 4	3	Red metallic tower; 10.	
5608 <i>E 0380.5</i>	-Jetty, head.	40° 48.7' N 0° 42.8' E	Fl.G. period 4s fl. 0.5s, ec. 3.5s	33 10	5	Green tower, white base; 13.	

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SPAIN-MEDITERRANEAN SEA							
5612 <i>E 0381.5</i>	Ametlla del Mar, breakwater, head.	40° 52.7' N 0° 48.1' E	Fl.(4)G. period 13s	55 17	7	Square green metal tower on white hut; 30.	
5613 <i>E 0382</i>	San Jorge de Alfama, E. dike, head.	40° 54.7' N 0° 49.9' E	Fl.(2)G. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	23 7	5	Green metal post; 10.	
5613.5 <i>E 0382.2</i>	-W. dike, head.	40° 54.7' N 0° 49.9' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	16 5	3	Red metal post; 7.	
5614 <i>E 0382.3</i>	Puerto Deportivo Calafat.	40° 55.7' N 0° 51.1' E	Fl.G. period 4s fl. 0.5s, ec. 3.5s	26 8	6	Green truncated pyramidal tower; 20.	
5614.5 <i>E 0382.4</i>	-Contradique.	40° 55.8' N 0° 51.1' E	Fl.(2)R. period 10s fl. 0.4s, ec. 1.6s fl. 0.4s, ec. 7.6s	16 5	4	Red tower; 13.	
5615 <i>E 0382.5</i>	Hospitalet del Infante, dique, SE. head.	40° 59.2' N 0° 55.9' E	I.Q.(4)G. period 10s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 6.5s	33 10	5	White truncated pyramid, green top; 16.	
5615.5 <i>E 0382.6</i>	-Contradique, head.	40° 59.4' N 0° 56.0' E	Fl.R. period 2s fl. 0.5s, ec. 1.5s	16 5	2	White truncated pyramid, red top; 13.	
5616 <i>E 0384</i>	Cambrils, W. mole, head.	41° 03.7' N 1° 03.6' E	Fl.(2)R. period 8s fl. 1s, ec. 1.5s fl. 1s, ec. 4.5s	41 12	4	Red tower, white base; 33.	
5620 <i>E 0383</i>	-E. mole, head.	41° 03.7' N 1° 03.6' E	Fl.G. period 4s fl. 1s, ec. 3s	50 15	5	Green square tower; 37.	
5624 <i>E 0385</i>	Embarcadero de Salou, dique de levante.	41° 04.3' N 1° 07.7' E	Fl.(2)G. period 8s fl. 1s, ec. 1.5s fl. 1s, ec. 4.5s	23 7	5	Green tower; 13.	
5628 <i>E 0385.5</i>	-Dique de poniente, head.	41° 04.4' N 1° 07.7' E	Fl.(2)R. period 8s fl. 1s, ec. 1.5s fl. 1s, ec. 4.5s	13 4	3	Red metal post; 7.	
5632 <i>E 0386</i>	Cabo de Salou.	41° 03.4' N 1° 10.4' E	Fl.(4)W. period 20s fl. 0.2s, ec. 3.1s fl. 0.2s, ec. 3.1s fl. 0.2s, ec. 3.1s fl. 0.2s, ec. 9.9s	141 43	22	White tower, red band, on white building; 36.	Radiobeacon.
5636	LANBY, "Tanker".	41° 04.1' N 1° 13.2' E	Fl.(4)Y. period 20s		4	Yellow LANBY, yellow topmark; 36.	
5640 <i>E 0386.6</i>	Playa de le Canonja, oil pier.	41° 05.0' N 1° 12.5' E	Fl.R. period 2.5s	36 11	5	Round post on red base; 10.	
5644 <i>E 0387</i>	Oil pier, W. of Tarragona, on Platform "A".	41° 05.7' N 1° 12.9' E	Fl.(2)R. period 6s	36 11	3	White round post; 13.	
5648 <i>E 0387.2</i>	-Platform "C".	41° 05.9' N 1° 13.0' E	Iso.R. period 2s	30 9	2	White round post on gray hut, red square; 3.	Fl.(3)R. 15s 2M marks platform "B" 250 meters S.
TARRAGONA:							
5652 <i>E 0388</i>	-Dique de Levante.	41° 05.3' N 1° 13.6' E	Oc.W. period 3s lt. 2s, ec. 1s	89 27	10	Hexagonal hut on pylons; 59.	F.R. lights on silo 550 meters ENE. and chimney 1.8 km. WNW.
5660 <i>E 0388.4</i>	-Muelle de Aragon.	41° 06.0' N 1° 14.1' E	Fl.(4)G. period 11s	23 7	3	Green post.	

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SPAIN-MEDITERRANEAN SEA							
5662 <i>E 0388.2</i>	-Muelle de Cataluna, NE. corner.	41° 05.7' N 1° 13.7' E	Fl.(3)G. period 9s	26 8	3	Green post; 13.	
5664 <i>E 0393</i>	-Contradique, E. corner.	41° 06.0' N 1° 13.7' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	23 7	4	Red metal framework tower; 16.	
5665 <i>E 0393.2</i>	--W. corner.	41° 06.0' N 1° 13.5' E	Fl.(4)R. period 11s	20 6	3	Red mast; 10.	
5668 <i>E 0392.6</i>	-Muelle de Castilla.	41° 06.1' N 1° 13.9' E	Fl.(2+1)R. period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 4.5s	23 7	3	Red mast, green band; 13.	
5670 <i>E 0389</i>	-Muelle de Rioja, head.	41° 06.2' N 1° 14.2' E	Fl.(2)R. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	3	Red metal post; 13.	
5676 <i>E 0392</i>	--SE. head.	41° 06.4' N 1° 14.6' E	Fl.(2+1)R. period 12s	23 7	3	Red metal post, green band; 15.	
5682 <i>E 0388.12</i>	E. breakwater, head.	41° 05.0' N 1° 13.2' E	Fl.G. period 5s fl. 1s, ec. 4s	72 22	10	Green post; 20.	
5684 <i>E 0388.35</i>	-E. breakwater, spur, head.	41° 05.5' N 1° 13.5' E	Fl.(2)G. period 8s fl. 1s, ec. 2s fl. 1s, ec. 4s	19 6	3	Green post; 13.	
5689 <i>E 0392.3</i>	-Outer breakwater.	41° 06.3' N 1° 15.1' E	Fl.(2)G. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	23 7	3	Green post; 10.	
5690 <i>E 0392.33</i>	-Dique de Arigo.	41° 06.5' N 1° 15.2' E	Q.(3)W. period 10s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 7.5s	16 5	3	E. CARDINAL BYB, post, topmark; 3.	Radar reflector.
5690.5 <i>E 0392.37</i>	-Martillo inner breakwater.	41° 06.4' N 1° 15.1' E	Fl.(3)G. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	10 3	1	Green post; 3.	
5691 <i>E 0392.4</i>	-Inner breakwater.	41° 06.4' N 1° 15.1' E	Fl.(2)R. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	13 4	3	Red post; 3.	
5691.5 <i>E 0393.7</i>	Torredembarra.	41° 07.9' N 1° 23.7' E	Fl.(5)W. period 30s fl. 0.2s, ec. 4.8s fl. 0.2s, ec. 4.8s fl. 0.2s, ec. 4.8s fl. 0.2s, ec. 4.8s fl. 0.2s, ec. 9.8s	190 58	19	White octagonal tower, copper dome; 125.	
SAN SALVADOR:							
5692 <i>E 0394</i>	-W. jetty, head.	41° 10.7' N 1° 31.0' E	Fl.G. period 5s	26 8	5	Green metal tripod; 13.	
5696 <i>E 0394.2</i>	-Mole, W. elbow.	41° 10.4' N 1° 30.7' E	Q.(6)+L.Fl.W. period 15s	26 8	3	S. CARDINAL YB, tower, topmark; 13.	
5700 <i>E 0394.4</i>	-Mole, E. elbow.	41° 10.4' N 1° 30.8' E	V.Q.(6)+L.Fl.W. period 10s	26 8	3	S. CARDINAL YB, tower, topmark; 13.	
5704 <i>E 0394.6</i>	-E. jetty, head.	41° 10.4' N 1° 30.8' E	Q.(2)R. period 4s	26 8	3	Red metal tripod; 13.	

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SPAIN-MEDITERRANEAN SEA							
5708 <i>E 0396</i>	Villanueva y Geltru.	41° 13.1' N 1° 44.5' E	Fl.(3)W. period 8s fl. 0.2s, ec. 1.5s fl. 0.2s, ec. 1.5s fl. 0.2s, ec. 4.4s	89 27	19	Truncated conical tower, white dwelling, aluminum cupola; 69.	Visible 265°-070°.
5712 <i>E 0396.2</i>	-Dique de levante, head.	41° 12.3' N 1° 43.7' E	Fl.(2)G. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	59 18	5	Green tower, white base; 36.	
5716 <i>E 0396.3</i>	-N. extremity.	41° 12.6' N 1° 44.0' E	Fl.(3)G. period 10.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 4.5s	16 5	2	Green truncated pyramidal tower; 10.	
5718 <i>E 0396.12</i>	-Nuevo contradique.	41° 12.6' N 1° 43.7' E	Fl.(2)R. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	49 15	3	Red truncated pyramidal tower; 16.	
5720 <i>E 0396.14</i>	-Dique de poniente, head.	41° 12.6' N 1° 43.8' E	Fl.(3)R. period 12.5s	30 9	2	Red truncated pyramidal tower; 10.	
5728 <i>E 0396.52</i>	-Espigou de la Pesca.	41° 12.8' N 1° 44.0' E	Fl.(4)R. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	19 6	3	Red tower; 10.	
5732 <i>E 0396.5</i>	-Espigou Transversal, head.	41° 12.7' N 1° 44.0' E	Fl.(2+1)R. period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 4.5s	29 9	2	PREFERRED CHANNEL (A) RGR, truncated pyramidal tower; 10.	
5736 <i>E 0396.6</i>	Puerto de Vallcarca.	41° 14.1' N 1° 51.8' E	Fl.(4)G. period 13s	33 10	4	Green tower, white base; 13.	
5740 <i>E 0396.62</i>	Garraf, E. mole, head.	41° 14.8' N 1° 54.0' E	Fl.(3)G. period 9s	22 7	5	Green tower; 10.	
5744 <i>E 0396.64</i>	-W. mole, head.	41° 15.0' N 1° 54.1' E	Fl.(3)R. period 9s	13 4	3	Red tower; 10.	
5745 <i>E 0396.8</i>	Puerto deportivo de Vallbona, shelter dike, head.	41° 15.3' N 1° 55.2' E	Fl.(2)G. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	26 8	5	Green tower.	
5746 <i>E 0396.85</i>	-Contradique, head.	41° 15.5' N 1° 55.5' E	Fl.(2)R. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	16 5	3	Red tower; 10.	
5747 <i>E 0396.9</i>	-E. jetty, head.	41° 15.6' N 1° 55.9' E	Q.(6)+L.Fl.W. period 15s	16 5	4	S. CARDINAL YB, tower; 10.	
5748 <i>E 0397</i>	Muntados AVIATION LIGHT.	41° 18.3' N 2° 04.7' E	Fl.(2)W. period 4s	56 17			Occasional.
5750	Barcelona Approach Buoy.	41° 18.1' N 2° 10.6' E	Mo.(A)W. period 10s			SAFE WATER RW, pillar, topmark; 16.	
	RACON		B(-•••)		8		
5752 <i>E 0398</i>	Rio Llobregat.	41° 19.5' N 2° 09.1' E	Fl.W. period 5s fl. 1s, ec. 4s	105 32	23	Tower on building, gallery with lantern; 102.	Visible 240°-030°. Radiobeacon.
5753 <i>E 0399</i>	-New river mouth, S. breakwater, head.	41° 17.6' N 2° 07.6' E	Q.(3)W. period 10s fl. 0.3s, ec. 0.7s fl. 0.3s, ec. 0.7s fl. 0.3s, ec. 7.7s	16 5	3	E. CARDINAL BYB, post, topmark.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-MEDITERRANEAN SEA							
BARCELONA:							
5760 E 0400	-Montjuich.	41° 21.7' N 2° 10.0' E	Fl.(2)W. period 15s fl. 0.3s, ec. 3.5s fl. 0.3s, ec. 10.9s	354 108	26	Tower on building, round silver lantern; 42.	Visible 240°30'-066°36'.
-Dique del Este:							
5764 E 0401	--On new extension, 1.7 km. 191° from old head.	41° 20.2' N 2° 10.4' E	Fl.G. period 5s	56 17	6	Green post on masonry base; 23.	
5768 E 0402	---Spur, head.	41° 20.4' N 2° 10.3' E	Fl.(2)G. period 6.5s fl. 1s, ec. 1s fl. 1s, ec. 3.5s	29 9	3	Green post on masonry base; 16.	
5774 E 0405	-Nuevo Contradique, head.	41° 20.5' N 2° 10.1' E	Fl.R. period 5s fl. 1s, ec. 4s	30 9	5	Red round tower, white band at base; 16.	Nautophone: (150 meters from head) Mo.(B) ev. 30s.
5776 E 0407.4	-Oil pier, head.	41° 20.8' N 2° 09.9' E	Fl.(2+1)R. period 13.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 3.5s fl. 0.5s, ec. 7s	20 6	2	Red pillar, green band; 10.	
5780 E 0407.6	-New pier.	41° 20.9' N 2° 10.0' E	Fl.(3)R. period 7.5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	20 6	2	Red post on concrete base; 10.	
5784 E 0407.62	-Muelle Sur, N. corner.	41° 21.4' N 2° 10.4' E	Fl.(4)R. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	20 6	2	Red post on concrete base; 10.	Port marked by numerous R. and G. lights.
5795 E 0434.4	-Industrial Dock, jetty, head.	41° 22.4' N 2° 11.2' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	16 5	2	Green post; 10.	
5796 E 0434.45	--W. head.	41° 22.4' N 2° 11.2' E	Q.(2+1)G. period 9s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	16 5	2	Green post, red band.	
5864 E 0437	-San Adrian de Besos, pier.	41° 26.4' N 2° 14.8' E	Q.Y.	13 4	3	Yellow structure.	
5868 E 0434.8	--Pier.	41° 25.1' N 2° 14.2' E	Q.(3)W. period 10s	39 12	5	E. CARDINAL BYB, post, topmark; 20.	Fl.Y. 3s marks jetty NE.
5874 E 0439	Masnou.	41° 28.5' N 2° 18.7' E	Fl.(3)G. period 10s	3 1	2	White tower, green bands; 3.	
5874.5 E 0439.2	-Dique de Poniente, head.	41° 28.5' N 2° 18.8' E	Fl.(3)R. period 10s	3 1	2	Square red tower; 3.	
5875 E 0439.5	Premia de mar.	41° 29.4' N 2° 22.0' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	26 8	5	Green post; 10.	Fl.(3)R. 10s 3M marks opposite breakwater.
5875.4 E 0439.8	Mataro harbor.	41° 31.6' N 2° 26.7' E	Fl.(4)G. period 16s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 6s	49 15	5	Green tower.	
5876 E 0440	El Balis, yacht basin.	41° 33.4' N 2° 30.6' E	Fl.(4)G. period 12s	13 4	2	Green tower; 7.	
5880 E 0446	-Dique de Colvario, head.	41° 34.6' N 2° 33.5' E	Fl.(2+1)R. period 15s	16 5	2	Red tower, green band; 10.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-MEDITERRANEAN SEA							
5884 <i>E 0446.5</i>	-Dique de Portinol, head.	41° 34.4' N 2° 33.4' E	Fl.(2)G. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	30 9	5	Green round tower; 5.	
5888 <i>E 0448</i>	Calella.	41° 36.4' N 2° 38.7' E	Fl.(3+2)W. period 20s fl. 0.3s, ec. 1.4s fl. 0.3s, ec. 1.4s fl. 0.3s, ec. 7.2s fl. 0.3s, ec. 1.4s fl. 0.3s, ec. 7.1s	164 50	18	White tower, glass cupola; 33.	Aeromarine light.
5891 <i>E 0452</i>	Puerto de Blanes, Dique de Abrigo, head.	41° 40.3' N 2° 47.7' E	Fl.G. period 3s	23 7	3	White masonry tower, green top; 10.	
5892 <i>E 0452.2</i>	Blanes, breakwater, head.	41° 40.3' N 2° 47.7' E	Fl.G. period 3s fl. 1s, ec. 2s	23 7	5	White metal tower, green top; 10.	
5893 <i>E 0452.08</i>	-Contradique, head.	41° 40.3' N 2° 47.8' E	Fl.R. period 3s fl. 1s, ec. 2s	23 7	3	White metal tower, red top; 13.	
5894 <i>E 0452.1</i>	-Breakwater, head.	41° 40.5' N 2° 48.0' E	Fl.(2)R. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	20 6	2	Red post; 13.	
5896 <i>E 0453</i>	Cabo Tossa.	41° 42.8' N 2° 56.0' E	Fl.(3+1)W. period 20s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 7.3s fl. 0.2s, ec. 7.3s	197 60	21	White tower on square dwelling, with gray border; 36.	Visible 229°42'-064°12'.
SAN FELIU DE GUIXOLS:							
5900 <i>E 0456</i>	-Mole, head.	41° 46.5' N 3° 01.9' E	Fl.(3)G. period 9s	33 10	5	White tower, green top; 20.	Iso.W. 3s 4M and Oc.W. 3s 4M in line 343°, marks anchorage.
5912 <i>E 0459</i>	Playa de Aro.	41° 48.0' N 3° 03.8' E	Fl.(2)G. period 9s fl. 1.5s, ec. 2s fl. 1.5s, ec. 4s	20 6	5	Green metal column; 10.	
PALAMOS:							
5916 <i>E 0462</i>	-Punta del Molino.	41° 50.5' N 3° 07.8' E	Oc.(1+4)W. period 18s lt. 1.4s, ec. 1s lt. 1.4s, ec. 1s lt. 1.4s, ec. 1s lt. 4.4s, ec. 1s lt. 4.4s, ec. 1s	72 22	18	White masonry tower, lower part hexagonal, upper part round, gray cupola; 26.	
5920 <i>E 0460</i>	-Bajo Pereira (Llosa) on Palanos Reef.	41° 50.1' N 3° 07.2' E	Fl.(2)W. period 7s	33 10	5	Red column, black bands.	
5924 <i>E 0464</i>	-Dique de Abrigo, head.	41° 50.5' N 3° 07.2' E	Fl.G. period 3s fl. 1s, ec. 2s	29 9	5	Green column, white base; 23.	
5926 <i>E 0466.6</i>	-Darsena Pesquera, S. jetty, head.	41° 50.5' N 3° 07.5' E	Fl.(2)G. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	30 9	3	White column, green top; 13.	
5927 <i>E 0466.4</i>	--N. jetty, head.	41° 50.5' N 3° 07.5' E	Fl.(2)R. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	30 9	3	White column, red top; 13.	
5928 <i>E 0466.7</i>	-Puerto Deportivo, breakwater.	41° 50.7' N 3° 08.2' E	Fl.(4)G. period 10s	36 11	5	Green tower; 26.	
5929 <i>E 0466.75</i>	--N. breakwater.	41° 50.8' N 3° 08.2' E	Fl.(4)R. period 10s	13 4	3	Red structure.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-MEDITERRANEAN SEA							
5930 <i>E 0466.8</i>	--Inner breakwater.	41° 50.8' N 3° 08.3' E	Fl.R. period 5s	7 2	3	Green structure.	
5932 <i>E 0467</i>	-Hormiga Grande, N. coast.	41° 51.7' N 3° 11.1' E	Fl.(3)W. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	46 14	6	White round tower; 19.	
5936 <i>E 0468</i>	-Llanfranch, shelter mole, head.	41° 53.5' N 3° 11.7' E	Fl.(3)G. period 11s	20 6	5	White metal column, green top; 7.	
5940 <i>E 0470</i>	Cabo de San Sebastian.	41° 53.9' N 3° 12.1' E	Fl.W. period 5s fl. 0.2s, ec. 4.8s	548 167	32	White tower dwelling, white and red roof; 42.	Visible 197°-165°. Aeromarine light. Radiobeacon.
5944 <i>E 0472</i>	Islas Medas, summit of Meda Grande.	42° 02.8' N 3° 13.2' E	Fl.(4)W. period 24s	285 87	14	Tower on brick building; 36.	
5948 <i>E 0474</i>	Estartit, mole, head.	42° 03.0' N 3° 12.2' E	Fl.(2)G. period 13s fl. 0.5s, ec. 3s fl. 0.5s, ec. 9s	13 4	3	White post, green top; 13.	
5952 <i>E 0474.4</i>	-Contradique, head.	42° 07.1' N 3° 08.8' E	Fl.(2)R. period 13s fl. 0.5s, ec. 3s fl. 0.5s, ec. 9s	10 3	3	Lantern on red rock; 13.	
5956 <i>E 0475.4</i>	La Escala, la Clota, breakwater.	42° 07.1' N 3° 08.9' E	Fl.(4)R. period 9s	25 8	5	Red tower, white base; 10.	
5960 <i>E 0475.5</i>	Ampuriabrava, Dique de Poniente.	42° 14.6' N 3° 08.1' E	Fl.(3)G. period 7s	26 8	5	Green tower, white base; 13.	
5960.5 <i>E 0475.52</i>	-W. dike, head.	42° 14.6' N 3° 08.0' E	Fl.(3)R. period 7s	26 8	4	Red tower, white base; 13.	
5961 <i>E 0475.53</i>	-Transverse dike, head.	42° 14.7' N 3° 08.0' E	Fl.(4)R. period 8s	10 3	3	Red lantern on dike; 3.	
5961.5 <i>E 0475.54</i>	-Parallel dike.	42° 14.7' N 3° 08.0' E	Fl.(4)G. period 8s	13 4	3	Green tower, white base; 3.	
SANTA MARGARITA:							
5964 <i>E 0475.6</i>	-Dique de Abrigo.	42° 15.4' N 3° 09.0' E	Q.(2)G. period 4s	26 8	5	White tower, green top; 20.	
5968 <i>E 0475.7</i>	-Contradique.	42° 15.7' N 3° 09.0' E	Q.(2)R. period 4s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 2.5s	20 6	3	White tower, red top; 10.	
BAHIA DE ROSAS:							
5972 <i>E 0476</i>	-Punta de la Batteria.	42° 14.6' N 3° 10.9' E	Oc.(4)W. period 15s lt. 6s, ec. 1.5s lt. 1s, ec. 1.5s lt. 1s, ec. 1.5s lt. 1s, ec. 1.5s	79 24	12	White round tower, dwelling; 36.	
5976 <i>E 0479</i>	-Muelle de Abrigo, head.	42° 15.0' N 3° 10.6' E	Fl.G. period 4s fl. 1s, ec. 3s	26 8	5	White tower, green top; 13.	
5980 <i>E 0480</i>	-Muelle comercial, head.	42° 15.3' N 3° 10.7' E	Fl.R. period 4s fl. 1s, ec. 3s	20 6	3	White tower, red top; 13.	
5984 <i>E 0484</i>	Punta de Cala Nans, Cadaques, entrance, S. side.	42° 16.1' N 3° 17.1' E	Fl.(4+1)W. period 25s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 7.5s fl. 0.5s, ec. 7.5s	108 33	8	White round tower, dwelling; 23.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-MEDITERRANEAN SEA							
5988 <i>E 0486</i>	Cabo de Creus.	42° 19.0' N 3° 18.9' E	Fl.(2)W. period 10s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 7.2s	285 87	20	White round tower, dwelling; 36.	Aeromarine.
5992 <i>E 0488</i>	Puerto de la Selva Punta Sernella.	42° 20.9' N 3° 11.2' E	Fl.W. period 5s	72 22	13	Gray square tower, white lantern and cupola, dwelling.	Visible 176°-272° and over inner harbor.
5996 <i>E 0489</i>	-Punta Trench, mole, head.	42° 20.4' N 3° 11.9' E	Fl.(4)R. period 10s	20 6	5	Red concrete tower, white base; 16.	
6000 <i>E 0490</i>	Embarcadero de Culera, Dique de Levante, head.	42° 24.3' N 3° 09.3' E	Fl.(2)R. period 6s	23 7	5	Red mast; 10.	
6004 <i>E 0490.4</i>	-Contradique, head.	42° 24.3' N 3° 09.3' E	Fl.(2)G. period 6s	16 5	3	Green tower, white base; 10.	

Section 5

Mediterranean Coast of France and Monaco

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-MEDITERRANEAN SEA							
6008 <i>E 0492</i>	Cap Cerbere.	42° 26.4' N 3° 10.6' E	Fl.W. period 4s fl. 0.1s, ec. 3.9s	180 55	15	Tower, red top; 33.	
6009 <i>E 0492.2</i>	-Sector.	42° 26.5' N 3° 10.2' E	Fl.(2)W.R. period 6s	39 12	W. 9 R. 6	Red pedestal.	W. 202°-237°, R.-202°.
6012 <i>E 0493</i>	Banyuls, Ile Petite.	42° 28.9' N 3° 08.0' E	Fl.W.G. period 4s fl. 1s, ec. 3s	33 10	W. 10 G. 7	White pylon, green top; 26.	W. 193°-247°, G.-193°.
6016 <i>E 0495</i>	-Jetty, NE. head.	42° 28.9' N 3° 08.2' E	Oc.(2)R. period 6s	33 10		White pylon, red top; 20.	
6020 <i>E 0496</i>	Cap Bear.	42° 30.9' N 3° 08.2' E	Fl.(3)W. period 15s fl. 0.1s, ec. 2.9s fl. 0.1s, ec. 2.9s fl. 0.1s, ec. 8.9s	262 80	30	Red and gray square masonry tower; 88.	Visible 146°-056°.
PORT VENDRES:							
6024 <i>E 0498</i>	-Fort Fanal, W. side of entrance.	42° 31.3' N 3° 06.8' E	Oc.G. period 4s lt. 3s, ec. 1s	95 29	8	White square tower, dark green house; 59.	Visible 147°-264°.
6028	-Fort Fanal beacon, about 50 meters ESE of fort.	42° 31.3' N 3° 06.9' E	Q.G.	29 9	7	White and green tower; 29.	
6032 <i>E 0506</i>	-Anse Gerbal, jetty, head.	42° 31.3' N 3° 06.8' E	Iso.G. period 4s	13 4	6	White post, green top; 10.	
6036 <i>E 0508</i>	-Pointe des Pilotes.	42° 31.2' N 3° 06.3' E	Fl.G. period 4s fl. 1s, ec. 3s	13 4	7	White metal column, green top; 10.	
6040 <i>E 0509</i>	-Pointe de la Presquile.	42° 31.1' N 3° 06.1' E	Fl.R. period 4s fl. 1s, ec. 3s	10 3	6	Red metal structure; 5.	
6044 <i>E 0504</i>	-Mole, head, E. side of entrance.	42° 31.4' N 3° 07.0' E	Oc.(3)R. period 12s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 4.5s, ec. 1.5s	65 20	11	White iron framework tower and dwelling, red cupola; 56.	Visible 110°-287°.
6048 <i>E 0497</i>	-Entrance Range, front.	42° 31.2' N 3° 06.8' E	Q.W.	39 12	11	Red support on white hut; 19.	
6052 <i>E 0497.1</i>	--Rear, about 200 meters 197°30' from front.	42° 31.1' N 3° 06.4' E	Q.W.	75 23	18	Square stone tower, red and white checkered; 36.	Intensified 196°-199°. Synchronized with front.
6056 <i>E 0512</i>	Collioure, jetty, head, N. side of post.	42° 31.7' N 3° 05.3' E	Iso.G. period 4s	46 14	8	White and green structure; 23.	Visible 135°-278°. A fishing light, 2 F.W. (horiz.), shown at S. Cyprien about 11 km. NNW.
6060 <i>E 0512.5</i>	-Argeles-sur-Mer, jetty, NE. head.	42° 32.7' N 3° 03.4' E	Fl.G. period 4s fl. 1s, ec. 3s	16 5	3	Green metal column; 7.	
6064 <i>E 0512.6</i>	--Jetty, SW. head.	42° 32.7' N 3° 03.0' E	Oc.(2)R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	30 9	4	Metal column with gallery, red top; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-MEDITERRANEAN SEA							
6068 E 0513	Saint Cyprien, S. jetty, head.	42° 37.2' N 3° 02.4' E	Fl.(4)R. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	33 10	5	White column, red top; 23.	North jetty pierhead marked by F.W. lights.
6072 E 0514.5	Canet-Plage.	42° 42.5' N 3° 02.3' E	Fl.(4)W. period 12s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	89 27	15	White structure; 79.	
6076 E 0515	-S. jetty, head.	42° 42.2' N 3° 02.6' E	Fl.(3)R. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	30 9	9	White column, red top; 20.	
6077 E 0515.2	-N. jetty, head.	42° 42.2' N 3° 02.4' E	Fl.(3)G. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	16 5	5	White pylon, green top; 10.	
6078 E 0516	Sainte-Marie-la-Mer, N. breakwater, head.	42° 43.4' N 3° 02.4' E	Fl.(5)G. period 20s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	16 5	4	Gray post, green top; 10.	
6078.5 E 0516.1	-S. breakwater, head.	42° 43.4' N 3° 02.4' E	Fl.(5)R. period 20s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	20 6	5	Gray post, red top; 10	
6080 E 0514	Perpignan-Riversaltes, AVIATION LIGHT.	42° 43.8' N 2° 52.6' E	Mo.(X)W. period 8.5s	190 58	33	Pylon; 46.	Occasional.
6084 E 0517	Grau S. Ange, S. jetty, head.	42° 47.9' N 3° 02.4' E	Fl.(2)R. period 10s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 6.8s	33 10	5	White column, red top; 23.	Fl.G. 2.5s marks N. jetty.
6088 E 0518	Cap Leucate.	42° 54.5' N 3° 03.3' E	Fl.(2)W. period 10s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 7.4s	216 66	20	White pyramidal tower, red top; 62.	
6092 E 0517.6	Leucate, E. jetty.	42° 52.4' N 3° 03.3' E	Fl.R. period 4s	26 8	6	White column, red top; 20.	
6096 E 0517.7	-W. jetty, head.	42° 52.5' N 3° 03.1' E	Fl.G. period 4s	26 8	6	White and green column; 20.	
6097 E 0517.8	-Pleasure harbor, entrance, S. coast.	42° 52.3' N 3° 03.1' E	Fl.R. period 2.5s fl. 0.5s, ec. 2s	10 3	2	Red tower; 7.	
6098 E 0517.9	--N. coast.	42° 52.3' N 3° 03.3' E	Fl.G. period 2.5s fl. 0.5s, ec. 2s	10 3	2	Green tower; 7.	
PORT-LA-NOUVELLE:							
6100 E 0522	-S. jetty, head, Range, front.	43° 00.8' N 3° 04.2' E	Q.W.	75 23	14	White tower, red top; 59.	
6100.1 E 0522.1	--Rear, 3530 meters 292°24' from front.	43° 01.3' N 3° 01.8' E	Q.W.	157 48	17	Tower.	
6104 E 0524	-N. jetty, head.	43° 00.8' N 3° 04.2' E	Iso.G. period 4s	49 15	6	White round tower, green top; 39.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-MEDITERRANEAN SEA							
CANAL DU GRAZEL:							
6106 <i>E 0525</i>	-S. jetty, head.	43° 05.7' N 3° 06.7' E	Fl.R. period 4s fl. 1s, ec. 3s	20 6	4	White post, red top; 13.	
6106.5 <i>E 0525.2</i>	--N. jetty, head.	43° 05.7' N 3° 06.7' E	Oc.(2)G. period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	20 6	3	White post, green top; 13.	
6107 <i>E 0526</i>	Gruissan.	43° 06.6' N 3° 07.9' E	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	39 12	6	Green mast, red top; 26.	
PORT-LA-NOUVELLE:							
6108 <i>E 0529</i>	-Port de Valras, SW. jetty, head.	43° 14.7' N 3° 18.0' E	Fl.(4)W. period 15s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	30 9	9	Metal structure, red top; 20.	
6112 <i>E 0528</i>	-NE. jetty, head.	43° 14.8' N 3° 18.0' E	Fl.G. period 4s fl. 1s, ec. 3s	30 9	6	Square gallery on white metal column, green top; 16.	
6113 <i>E 0527.2</i>	Bassin des Exals.	43° 10.4' N 3° 10.9' E	Fl.(3)W. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	79 24	15	Gray metal tower; 33.	Visible 220°-040°.
6114 <i>E 0527.5</i>	Port of Narbonne-Plage, N. jetty.	43° 10.4' N 3° 11.0' E	Fl.G. period 4s	23 7	1	Green post; 13.	
6115 <i>E 0527.52</i>	-S. jetty.	43° 10.4' N 3° 11.0' E	Fl.R. period 4s	23 7	4	Red tower; 13.	
6120 <i>E 0526.2</i>	-N. jetty, head.	43° 06.7' N 3° 07.9' E	Fl.G. period 4s fl. 1s, ec. 3s	36 11	7	White pylon, green top; 30.	
6122 <i>E 0527.7</i>	Embouchure de l'Aude, E. dike, head.	43° 12.7' N 3° 14.6' E	Fl.(2)G. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	33 10	8	Round aluminum structure; 20.	
6122.5 <i>E 0527.8</i>	-W. dike, head.	43° 12.7' N 3° 14.4' E	Fl.R. period 4s fl. 1s, ec. 3s	23 7	5	Aluminum tripod; 13.	
HERAULT:							
6124 <i>E 0535</i>	-E. jetty, head.	43° 17.0' N 3° 27.0' E	Oc.G. period 4s lt. 3s, ec. 1s	46 14	7	White masonry tower, upper part green; 36.	F.R. lights are shown from 2 radio masts about 3 km. ENE. Horn: 1 bl. ev. 10s (bl. 5s, si. 5s).
6128 <i>E 0534</i>	-W. jetty, head.	43° 16.8' N 3° 26.6' E	Oc.(2)R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	46 14	7	White masonry tower, upper part red; 36.	
6132 <i>E 0535.4</i>	-La Lauze Beacon, Cap d'Agde.	43° 16.0' N 3° 30.5' E	Fl.G. period 4s fl. 1s, ec. 3s	33 10	6	White tower, green top; 33.	
6136 <i>E 0538</i>	Ile de Brescou, S. of Fort Brescou.	43° 15.8' N 3° 30.1' E	Fl.(2)W.R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	72 22	W. 13 R. 10	White round tower, red top; 46.	R. 113°-190°, W.-113°. 2 F.R. on radio masts 1.9M NW.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-MEDITERRANEAN SEA							
6140 <i>E 0536</i>	Rade de Brescou, Agde, E. jetty.	43° 16.1' N 3° 30.4' E	Iso.G. period 4s	26 8	9	Green and white support; 16.	
6144 <i>E 0536.2</i>	-W. jetty.	43° 16.1' N 3° 30.3' E	Fl.R. period 4s fl. 1s, ec. 3s	26 8	5	White tower, red top; 16.	
PORT AMBONNE:							
6148 <i>E 0540</i>	-NE. jetty, head.	43° 17.5' N 3° 31.8' E	Fl.(2)G. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s		4	Round mast, green top; 10.	
6152 <i>E 0539</i>	-SW. jetty, head.	43° 17.5' N 3° 31.8' E	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	30 9	6	White column, red top; 23.	
6154 <i>E 0542</i>	-W. jetty, head.	43° 19.0' N 3° 33.7' E	Fl.R. period 4s fl. 1s, ec. 3s	23 7	8	White column, red top.	
6162 <i>E 0545</i>	Port des Quilles.	43° 23.5' N 3° 39.9' E	Fl.(3)G. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	26 8	5		Fl.(3)R. 12s 3M and Fl.G. 2.5s 2M mark head of jetties.
SETE:							
6164 <i>E 0544</i>	-Mont de Sete (Mont St. Clair).	43° 23.7' N 3° 41.4' E	Fl.W. period 5s fl. 0.1s, ec. 4.9s	305 93	29	White octagonal tower, dark green top; 62.	W. (unintensified) 013°-104°, W.-013°.
6168	-Approach buoy.	43° 15.0' N 3° 54.0' E	Iso.W. period 4s			SAFE WATER RW, pillar, topmark.	Whistle. Radar reflector.
6180 <i>E 0546</i>	-Mole Saint-Louis.	43° 23.9' N 3° 42.3' E	Fl.(4)W.R. period 12s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	112 34	W. 15 R. 11	White truncated tower, red lantern; 100.	W. 014°-054°, R.-014°.
6184 <i>E 0552</i>	--S. jetty.	43° 23.7' N 3° 42.2' E	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	33 10	7	Triangular support, red round topmark; 23.	
6188 <i>E 0551</i>	-Epi Dellon, W. jetty, head.	43° 23.6' N 3° 42.1' E	Iso.G. period 4s	33 10	6	Green tower; 23.	
6192 <i>E 0550</i>	--E. breakwater, center.	43° 23.8' N 3° 42.6' E	Oc.(2)R. period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	49 15	7	Red tower, white band, name "Brise-Lames" on side; 26.	Visible 063°-253°.
6196 <i>E 0547</i>	-E. breakwater, center.	43° 23.9' N 3° 43.0' E	Oc.R. period 4s lt. 3s, ec. 1s	69 21	10	White tower, upper part red; 62.	Visible 080°-268°.
6200 <i>E 0547.5</i>	--E. extremity.	43° 24.0' N 3° 43.9' E	Q.R.	39 12	9	White pylon, red top; 26.	
6204 <i>E 0547.7</i>	-Digue E.	43° 24.2' N 3° 43.6' E	Fl.(2)G. period 6s	33 10		White tower, green top.	
6212 <i>E 0548</i>	--W. jetty, head.	43° 24.0' N 3° 42.9' E	Fl.(3)G. period 12s	10 3	4	White tower, green top; 10.	Traffic signals.
6216 <i>E 0557.2</i>	Frontignan, E. dike, head.	43° 25.2' N 3° 44.9' E	Fl.(3)G. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	49 15	7	Concrete structure; 26.	S. dike marked by Fl.R. 4s (head) and Fl.(2)W. 6s (W. side).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-MEDITERRANEAN SEA							
6221 <i>E 0558</i>	--Head of W. dike.	43° 25.8' N 3° 46.6' E	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	30 9	7	Red column; 23.	
6222 <i>E 0558.2</i>	--E. dike, head.	43° 25.8' N 3° 46.7' E	Fl.G. period 4s fl. 1s, ec. 3s	30 9	7	White column, green top; 23.	
6224 <i>E 0556</i>	--W. mole, head.	43° 24.0' N 3° 42.2' E	Q.R.	23 7	8	White column, red top; 16.	Visible within Frontignan Jetty.
6228 <i>E 0557</i>	--E. mole, head.	43° 24.0' N 3° 42.3' E	Q.G.	20 6	8	White column, green top; 13.	Visible within Frontignan Jetty.
6232 <i>E 0555</i>	--Mole Masselin.	43° 24.0' N 3° 42.3' E	F.Vi.	26 8	4	Column with white and violet bands, name "Mole Masselin" in white; 23.	
ETANG DE THAU:							
6236 <i>E 0560</i>	-Canal de Sete, N. entrance, E. side.	43° 24.9' N 3° 41.5' E	Q.G.	26 8	5	White column green top; 23.	
6240 <i>E 0561</i>	---W. side.	43° 24.9' N 3° 41.4' E	Q.R.	26 8	6	White column, red top; 23.	
6244 <i>E 0562</i>	-Rocher de Roquerols.	43° 25.8' N 3° 40.4' E	Fl.(2)W.R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	20 6	W. 11 R. 8	Tower, red and black bands, red ball topmark; 17.	W. 137°-078°, R.-137°.
SETE:							
6248 <i>E 0566</i>	-Meze, E. jetty, head.	43° 25.3' N 3° 36.4' E	Fl.G. period 4s fl. 1s, ec. 3s	26 8	6	White tower, dark green top; 23.	
GOLFE D'AIGUES-MORTES:							
6260 <i>E 0579</i>	-Montpellier Frejorge, AVIATION LIGHT.	43° 34.7' N 3° 57.1' E	Mo.(Y)W. period 12.5s	52 16		Control tower; 66.	Occasional.
6264 <i>E 0577</i>	-Palavas les Flots, E. jetty.	43° 31.6' N 3° 56.1' E	Fl.(2)G. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	23 7	3	Metal mast; 10.	
6268 <i>E 0576</i>	--W. jetty.	43° 31.6' N 3° 56.1' E	Fl.R. period 4s fl. 1s, ec. 3s	30 9	3	Metal mast; 10.	
6269 <i>E 0577.4</i>	--Le Lez.	43° 31.7' N 3° 56.1' E	Fl.R. period 2.5s fl. 0.5s, ec. 2s	26 8	3	White tower, red top; 19.	Obscured 270°-090°.
6270 <i>E 0577.5</i>	---Breakwater, head.	43° 31.7' N 3° 56.0' E	Fl.G. period 2.5s fl. 0.5s, ec. 2s	26 8	3	White tower, green top; 19.	
6272 <i>E 0578</i>	-Carnon, SW. jetty.	43° 32.4' N 3° 58.6' E	Fl.(4)R. period 15s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	29 9	7	Red and white column; 20.	Fl.G. 4s on E. jetty.
6276 <i>E 0580</i>	-La Grande Motte, Digue Ouest.	43° 33.1' N 4° 04.9' E	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	39 12	7	Red lantern on structure marked by letter "M"; 36.	
6280 <i>E 0578.2</i>	--Digue Est.	43° 32.5' N 3° 58.7' E	Fl.G. period 4s fl. 1s, ec. 3s	26 8	5	White tower, green top; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-MEDITERRANEAN SEA							
-Grau du Roi (Aigues-Mortes):							
6284 <i>E 0582</i>	--E. jetty, head.	43° 32.1' N 4° 07.9' E	Fl.(3)G. period 15s fl. 0.1s, ec. 2.9s fl. 0.1s, ec. 2.9s fl. 0.1s, ec. 8.9s	33 10	10	White tower, green top, name in white; 30.	
-Port Camargue (Espiguette):							
6288 <i>E 0582.2</i>	--W. jetty, head.	43° 32.1' N 4° 07.9' E	Oc.(2)R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	30 9	7	White tower base, top red; 30.	
6292 <i>E 0583</i>	--Digue d'arret, (spur of S. jetty), head.	43° 31.3' N 4° 07.4' E	V.Q.(9)W. period 10s	30 9	9	W. CARDINAL Beacon; 23.	
6296 <i>E 0583.2</i>	--W. jetty, head.	43° 31.3' N 4° 07.3' E	Fl.G. period 4s fl. 1s, ec. 3s	30 9	9	White column, green top; 23.	
6300 <i>E 0583.4</i>	--E. jetty, head.	43° 31.3' N 4° 07.4' E	Fl.R. period 4s fl. 1s, ec. 3s	26 8	6	White column, red top; 19.	
6304 <i>E 0584.2</i>	--Entrance, W. head.	43° 30.6' N 4° 07.1' E	Oc.G. period 4s lt. 3s, ec. 1s	23 7	4	White structure, green top; 10.	Visible 059°-345°.
6308 <i>E 0584.4</i>	--E. head.	43° 30.6' N 4° 07.0' E	Oc.R. period 4s lt. 3s, ec. 1s		4	White structure, red top; 10.	Visible 063°-345°.
6312	-SW. Whistle Buoy.	43° 29.1' N 4° 06.5' E	V.Q.(9)W. period 10s			W. CARDINAL YBY, pillar, topmark.	Whistle. Radar reflector.
6316 <i>E 0584</i>	-Channel S. Digue d'arret, head.	43° 30.6' N 4° 06.7' E	Q.(9)W. period 15s	33 10	7	W. CARDINAL YBY, dolphin, topmark; 23.	
6320 <i>E 0586</i>	Pointe de L'Espiguette.	43° 29.3' N 4° 08.5' E	Fl.(3)W. period 15s fl. 0.1s, ec. 2.9s fl. 0.1s, ec. 2.9s fl. 0.1s, ec. 8.9s	89 27	24	White square tower, upper part black; 89.	
6330 <i>E 0590</i>	Port Gardian W. levee, head.	43° 26.8' N 4° 25.4' E	Fl.R. period 4s fl. 1s, ec. 3s	29 9	7	Red tower; 16.	Obscured 077°-shore.
6331 <i>E 0590.2</i>	-E. levee, head.	43° 26.8' N 4° 25.4' E	Fl.G. period 2.5s fl. 0.5s, ec. 2s	26 8	4	Green tower; 13.	Visible 140°-326°.
6340	<i>Approach Buoy, Saintes Maries-de-la-Mer.</i>	43° 23.0' N 4° 26.0' E	Iso.W. period 4s			SAFE WATER RW, pillar, topmark.	Radar reflector.
GOLFE DES SAINTES-MARIES:							
6344 <i>E 0594</i>	-Pointe du Sablom.	43° 21.9' N 4° 35.1' E	Fl.(2)R. period 10s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 7.4s	82 25	18	White square tower, dwelling, black lantern; 89.	
6348 <i>E 0592</i>	-La Gacholle, N. side of gulf.	43° 27.3' N 4° 34.2' E	Fl.W.R.G. period 4s fl. 1s, ec. 3s	57 17	W. 12 R. 9 G. 9	White square tower, black top; 52.	G. 300°-019°, W.-065°, R.-085°, obsc.-300°.
6352	-Beauduc Buoy.	43° 21.0' N 4° 34.0' E	V.Q.(9)W. period 10s			W. CARDINAL YBY, pillar, topmark.	Radar reflector.
6356 <i>E 0600</i>	Etang de Faraman.	43° 21.4' N 4° 41.3' E	Fl.(2)W. period 10s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 7.4s	135 41	23	White masonry tower, black bands; 141.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-MEDITERRANEAN SEA							
RHONE RIVER ENTRANCE:							
6360 E 0600.2	-Faraman Whistle Buoy.	43° 19.0' N 4° 39.0' E	Q.(6)+L.Fl.W. period 15s			S. CARDINAL YB, pillar, topmark.	Whistle. Radar reflector.
6364	-Piemanson Buoy.	43° 19.0' N 4° 45.0' E	V.Q.(6)+L.Fl.W. period 10s			S. CARDINAL YB, pillar, topmark.	Radar reflector.
6368	-Roustan Buoy.	43° 19.0' N 4° 51.0' E	Q.(6)+L.Fl.W. period 15s			S. CARDINAL YB, pillar, topmark.	S. Cardinal spar bell buoy marked "R" about 180 meters W. Radar reflector.
6370	Grande Rhone, RACON.	43° 20.3' N 4° 50.8' E	(••••••)				Azimuth coverage 270°-090°. Distance between 2 points 0.3 miles on trial.
GOLFE DE FOS:							
6392 E 0601	-Omega Approach Buoy.	43° 12.0' N 5° 01.8' E	Iso.W. period 4s			SAFE WATER RW, pillar, topmark.	Whistle. Radar reflector.
	-RACON		O(---)				
6396 E 0604	-Port de Fos, entrance Range, front.	43° 24.4' N 4° 52.1' E	Dir.Oc.(2)W. period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	36 11	20	Gray pylon, two horizontal red square daymarks; 33.	Intensified 10° each side of range line.
6400 E 0604.1	--Rear, 500 meters 287° from front.	43° 24.2' N 4° 51.8' E	Dir.Oc.(2)W. period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	95 29	23	Gray pylon, two vertical red square daymarks; 92.	Intensified 10° each side of range line. Synchronized with front.
6404 E 0603	-Port-St.-Louis-du-Rhone.	43° 23.1' N 4° 48.3' E	Dir.Q.W.	49 15	20	Gray tower, red lantern; 69.	Intensified 262°-265°.
6406	Buoy "GE".	43° 23.0' N 4° 55.6' E	V.Q.(3)W. period 5s			E. CARDINAL BYB, pillar, topmark.	Channel marked by R. and G. lighted port and starboard buoys and beacons. Radar reflector.
RACON							
6408 E 0602	-Canal de St. Louis, S. jetty.	43° 23.4' N 4° 52.3' E	Q.W.R.	47 14	W. 11 R. 8	Tower with white cupola; 43.	W. 072°-267°30', R.-072°.
6412 E 0602.1	--No. "1".	43° 23.4' N 4° 51.0' E	Fl.G. period 4s fl. 1s, ec. 3s	26 8	7	Dark green post, number in white; 23.	Visible 264°-144°.
6416 E 0602.2	--No. "2".	43° 23.3' N 4° 51.0' E	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	26 8	7	Red post, number in white; 23.	Visible 024°-264°.
6420 E 0602.3	--No. "3".	43° 23.5' N 4° 50.6' E	Fl.(2)G. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	26 8	2	White post, dark green top; 20.	
6424 E 0602.33	--No. "3" bis.	43° 23.3' N 4° 50.2' E	Q.G.	26 8	5	White post, dark green top; 20.	
6428 E 0602.32	--No. "4".	43° 23.3' N 4° 50.6' E	Fl.R. period 4s fl. 1s, ec. 3s	26 8	5	White post, red top; 20.	
6432 E 0602.34	--No. "5".	43° 23.3' N 4° 49.9' E	Iso.G. period 4s	26 8	5	White post, dark green top; 20.	
6436 E 0602.36	--No. "6".	43° 23.3' N 4° 50.2' E	Oc.(2)R. period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	26 8	3	White post, red top; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-MEDITERRANEAN SEA							
6440 <i>E 0602.6</i>	--No. "8".	43° 23.1' N 4° 48.6' E	Oc.R. period 4s lt. 3s, ec. 1s	26 8	6	Red post, number in white; 23.	Visible 080°-268°.
6444 <i>E 0603.5</i>	-Port de Carteau Range, front.	43° 22.5' N 4° 50.6' E	Q.W.	16 5	7	White framework tower; 16.	
6448 <i>E 0603.51</i>	--Rear, 227 meters 243° from front.	43° 22.5' N 4° 50.5' E	Q.W.	33 10	7	White framework tower; 36.	
6450 <i>E 0605</i>	-Post "1".	43° 25.0' N 4° 53.1' E	Fl.G. period 4s fl. 1s, ec. 3s	20 6	5	Dark green post; 17.	
6452 <i>E 0605.2</i>	-Basin No. "1".	43° 26.1' N 4° 52.3' E	Dir.Oc.W.R.G. period 4s lt. 3s, ec. 1s	82 25	W. 15 R. 12 G. 12	Column; 72.	G. 333°-339°, W.-341°, R.-344°.
6454 <i>E 0604.5</i>	-Basin No. "4", NE. corner.	43° 25.1' N 4° 53.8' E	F.Vi.	26 8	2	Violet support.	
6456 <i>E 0606.8</i>	-Pointe de S. Gervais.	43° 25.7' N 4° 56.4' E	I.Q.(7)W.R.G. period 12s	148 45	W. 25 R. 21 G. 21	Black framework tower; 148.	G. 323°-340°, W.-348°, R.-007°, obsc.-323°.
6460 <i>E 0606.9</i>	--Yacht Harbor, S. breakwater, head.	43° 25.6' N 4° 56.4' E	Fl.G. period 4s fl. 1s, ec. 3s	22 7	5	White tower, green top; 13.	
6464 <i>E 0606.2</i>	-Istres, Le Tube AVIATION LIGHT.	43° 31.2' N 4° 57.1' E	Mo.(F)W. period 4s	193 59	23	Water tower; 101.	
6468 <i>E 0607</i>	-Port de Bouc, tower fort.	43° 23.7' N 4° 59.2' E	Oc.(2)W.R.G. period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	98 30	W. 12 R. 9 G. 9	Square tower, gray turret, white lantern, red gallery; 92.	G. 321°-343°, W.-040°, R.-087°, W.-112°, R.-140°, R. (unintensified)-230°, obsc.-321°.
6472 <i>E 0607.2</i>	--Saint Antoine.	43° 23.7' N 4° 59.1' E	Fl.Vi. period 5s fl. 0.4s, ec. 4.6s	26 8	17	White column, green top; 20.	Reserve light Iso.Vi. 4s 10M.
6480 <i>E 0608</i>	-N. jetty, head.	43° 23.8' N 4° 59.1' E	V.Q.(2)R.	46 14	6	White tower, red top; 30.	Fl.(2)R. 6s 3m 8M at head of dike about 200 meters NW. Iso.G. 4s on breakwater 600 meters NNE.
6484 <i>E 0609.5</i>	-Bassin des Caboteurs, mole, head.	43° 23.7' N 4° 59.3' E	Oc.(2)G. period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	16 5	6	White pylon, dark green top; 13.	
6488 <i>E 0609</i>	-Entrance Range, 1st. alignment, front.	43° 24.2' N 4° 59.6' E	Dir.Q.R.	36 11	11	Red pylon, white rectangle, red stripe; 33.	Intensified 027°-047°.
6492 <i>E 0609.1</i>	--Rear, about 167 meters 037° from front.	43° 24.4' N 4° 59.8' E	Dir.Q.R.	49 15	15	Pylon, red rectangular daymark, white stripe; 39.	Intensified 026°-048°.
6496 <i>E 0609.4</i>	-Entrance Range, 2nd. alignment, front.	43° 24.2' N 4° 59.4' E	Dir.F.R.	36 11	11	White pylon, red top, black rectangular daymark, yellow stripe; 36.	Intensified 020°-040°.
6500 <i>E 0609.41</i>	--Rear, about 184 meters 030° from front.	43° 24.4' N 4° 59.6' E	Dir.F.R.	56 17	15	White pylon, white rectangular daymark, yellow stripe; 36.	Intensified 019°-041°.
-Channel from Port de Bouc to Martigues:							
6504 <i>E 0610</i>	--N. side of entrance.	43° 24.3' N 5° 00.1' E	Q.R.	30 9	7	Red post; 33.	Canal marked by R. and G. lights.
-Channel from Port de Bouc to Martigues:							
6508 <i>E 0610.2</i>	--S. side, No. "1".	43° 24.2' N 5° 00.0' E	Q.G.	16 5	4	Dark green and white lantern on gray dolphin; 13.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-MEDITERRANEAN SEA							
-Channel from Port de Bouc to Martigues:							
6512 <i>E 0610.5</i>	--Turning basin, SW. corner, No. "5".	43° 24.1' N 5° 01.2' E	Q.W.	16 5	6	N. CARDINAL BY, on dolphin; 13.	
-Channel from Port de Bouc to Martigues:							
6516 <i>E 0610.6</i>	---SE. corner, No. "7".	43° 24.1' N 5° 01.5' E	Q.(9)W. period 15s	16 5	6	W. CARDINAL YBY, on dolphin; 13.	
6520 <i>E 0611</i>	-Port de la Mede, Trois Freres.	43° 24.3' N 5° 07.1' E	Fl.G. period 4s	66 20	7	White tower, dark green top; 7.	
6524 <i>E 0615</i>	-Pointe de Berre, jetty, head.	43° 27.6' N 5° 08.6' E	Fl.(4)W.R. period 15s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	39 12	W. R. 6	9 White column, red lantern; 33.	W. 012°-057°, R.-012°.
6526 <i>E 0615.4</i>	-Port de Berre-l'Etange, W. dike.	43° 28.3' N 5° 10.2' E	Fl.R. period 4s	13 4	4	Black and white truncated tower; 56.	
6528 <i>E 0617</i>	Anse de Laurons, jetty, head.	43° 21.3' N 5° 01.0' E	Fl.(3)W.R. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	23 7	W. R. 6	9 White and red support.	W. 000°-110°, R.-000°.
6540 <i>E 0620</i>	Carro, jetty, head.	43° 19.8' N 5° 02.6' E	Oc.(2)W.R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	26 8	W. R. 6	9 White masonry tower, red top; 13.	W. 322°-355°, R.-322°.
6544 <i>E 0622</i>	Cap Couronne.	43° 19.6' N 5° 03.3' E	Fl.R. period 3s fl. 0.1s, ec. 2.9s	111 34	20	White masonry tower, red top; 102.	
6548 <i>E 0624</i>	Sausset-Les-Pins, on SW. jetty.	43° 19.8' N 5° 06.5' E	Oc.(3)R. period 12s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 4.5s	33 10	8	Truncated tower; 23.	
6549 <i>E 0624.7</i>	Carry-Le-Rouet, E. mole, head.	43° 19.8' N 5° 09.2' E	V.Q.G.	30 9	5	Green mast; 20.	
6550 <i>E 0624.8</i>	-Pain de Sucre.	43° 19.6' N 5° 09.1' E	Fl.R. period 2.5s fl. 0.5s, ec. 2s	23 7	5	White truncated beacon, red lantern; 16.	
6552 <i>E 0625.3</i>	Illet Eveline, E. of Cap Mejean.	43° 19.8' N 5° 14.2' E	Q.(6)+L.Fl.W. period 15s	92 28	10	S. CARDINAL YB, tower, name in black; 16.	
6556 <i>E 0625.6</i>	Pointe Esquilladou.	43° 21.0' N 5° 16.7' E	Fl.(4)W.R. period 15s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	144 44	W. R. 7	10 White column, red top; 13.	R. 233°-263°, W.-041°, obs.- 233°.
6560 <i>E 0628</i>	-Port de la Lave, outer mole, head.	43° 21.6' N 5° 18.3' E	Fl.R. period 4s fl. 1s, ec. 3s	36 11	4	White tower, red top; 36.	Aeronautical obstruction lights, Fl.R. 3s 2 miles and 2.2 miles NW.
6564 <i>E 0630</i>	-Passe de l'Estaque, entrance to MarseilleRhône Canal, mole, head.	43° 21.5' N 5° 18.8' E	Q.R.	36 11	5	White column, red top; 26.	
6568 <i>E 0631</i>	-Drydock No. "10", NW. breakwater, head.	43° 21.4' N 5° 18.8' E	U.Q.(2)W.	66 20	14	Red and white pylon; 56.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-MEDITERRANEAN SEA							
MARSEILLE, NORTH ENTRANCE:							
6572 <i>E 0634</i>	-Digue Exterieur, N. head.	43° 20.9' N 5° 19.1' E	Fl.G. period 5s fl. 0.3s, ec. 4.7s	49 15	18	White tripod, green top marked "Marseille Nord"; 39.	
6576	-Buoy No. "1", S. side of entrance to AvantPort Nord.	43° 21.0' N 5° 19.0' E	Q.W.			N. CARDINAL BY, topmark.	
6580 <i>E 0635</i>	-Digue de Saumaty, head.	43° 20.9' N 5° 19.3' E	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	39 12	4	White tower, red top; 26.	
6584 <i>E 0635.4</i>	-Passe de Saumaty, jetty, head.	43° 21.2' N 5° 19.6' E	Fl.(3)G. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	23 7	6	Green column on dolphin; 16.	
6588 <i>E 0637</i>	-Passe Leon Gourret, jetty, head, NE. side.	43° 20.7' N 5° 19.7' E	Oc.R. period 4s lt. 3s, ec. 1s	32 10	6	Red tank; 26.	
6592 <i>E 0636</i>	--Jetty, head, SW. side.	43° 20.6' N 5° 19.6' E	Iso.G. period 4s	36 11	7	White round column, green top; 30.	Visible 125°-307°.
6596 <i>E 0637.6</i>	-Pass Mirabeau, N. side on jetty, head.	43° 20.9' N 5° 19.8' E	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	26 8	6	White column, red top; 20.	
6600 <i>E 0637.2</i>	--S. side, on jetty, head.	43° 20.8' N 5° 19.8' E	Fl.(2)G. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	26 8	6	Green pylon on hut; 30.	Visible 103°-300°.
6604 <i>E 0642</i>	-Passe du Cap Janet, Mole Est.	43° 20.2' N 5° 20.6' E	Fl.R. period 4s fl. 1s, ec. 3s	26 8	6	White column, red top; 20.	
6608 <i>E 0643</i>	--Mole Ouest.	43° 20.1' N 5° 20.5' E	Fl.G. period 4s fl. 1s, ec. 3s	26 8	6	White column, green top; 20.	Visible 136°-327°.
6612 <i>E 0646</i>	-Passe de la Madrague, E. side.	43° 19.8' N 5° 20.9' E	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	26 8	7	White column, red top; 23.	
6616 <i>E 0644</i>	--W. side.	43° 19.7' N 5° 20.8' E	Fl.(2)G. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	26 8	7	White column, dark green top; 23.	Visible 149°-322°.
MARSEILLE, SOUTH ENTRANCE:							
6620 <i>E 0654</i>	-Digue des Catalans, NW. head.	43° 17.5' N 5° 20.8' E	Fl.(3)G. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	23 7	6	White pylon, green top; 30.	Radar reflector.
6624 <i>E 0656</i>	-Digue Saint Marie, SW. head.	43° 17.8' N 5° 21.2' E	U.Q.(2)R. period 1s	65 20	11	White pylon, red top.	
6628 <i>E 0660</i>	-Pointe de la Desirade (Le Pharo).	43° 17.7' N 5° 21.3' E	Fl.G. period 4s fl. 1s, ec. 3s	43 13	9	White tower, green top; 49.	Visible 003°-271°.
6632 <i>E 0657</i>	-Passe de la Joilette, Digue Sainte Marie, root.	43° 18.0' N 5° 21.6' E	Oc.(3)R. period 12s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	23 7	7	Red iron tower; 23.	Visible 195°-060°30'.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-MEDITERRANEAN SEA							
6636 <i>E 0662</i>	-Digue du Fort Saint-Jean, head.	43° 17.9' N 5° 21.6' E	Oc.(3)G. period 12s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	23 7	7	Green tower; 23.	Visible 001°30'-299°. Unintensified 001°30'-009°, 277°-299°.
6640 <i>E 0664</i>	-Fort St. Jean, N. side of entrance to Vieux Port.	43° 17.7' N 5° 21.7' E	Q.R.	36 11	6	Red pylon; 23.	
6644 <i>E 0666</i>	-Fort St. Nicolas, S. side of entrance to Vieux Port.	43° 17.6' N 5° 21.8' E	Iso.G. period 4s	26 8	6	White column, dark green top; 20.	
6648 <i>E 0667</i>	-Tunnel, W.	43° 17.7' N 5° 21.8' E	Fl.G. period 4s fl. 1s, ec. 3s	16 5	2	White tank, dark green top on black dolphin, name in white; 13.	
6652 <i>E 0668</i>	--E..	43° 17.6' N 5° 21.9' E	Fl.(3)G. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	16 5	3	White tank, dark green top on black dolphin, name in white; 13.	
6656 <i>E 0674</i>	Banc de Sourdaras, ENE. of Ile d'If.	43° 17.0' N 5° 20.3' E	Q.(9)W. period 15s	43 13	8	W. CARDINAL YBY, pillar, topmark; 62.	
6660 <i>E 0676</i>	Chateau d'If, E. point, S. approach to Marseille.	43° 16.8' N 5° 19.7' E	Fl.(2)W. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	89 27	11	Tower on square base, red top; 56.	Obscured by Tiboulén Island on bearings W. of 001° and by Frioul Islands (Pomegues and Ratoneau) 054°-152°.
6664 <i>E 0678</i>	Port du Frioul, mole, head.	43° 16.7' N 5° 18.7' E	Iso.G. period 4s	23 7	4	Platform on tank on white base with green top; 16.	
6668 <i>E 0677</i>	Ile Ratoneau.	43° 16.8' N 5° 17.3' E	Fl.(3)G. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	112 34	7	White columns, green top; 13.	Obscured 242°-276° and 279°-002°.
6672 <i>E 0679</i>	Cap Caveaux, Ile Pomegues.	43° 15.7' N 5° 17.4' E	Iso.W. period 4s	92 28	7	White support, black top; 7.	Obscured 144°-228°.
6676 <i>E 0682</i>	Pointe Rouge, breakwater, head.	43° 14.8' N 5° 21.8' E	Fl.(2)G. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	33 10	6	White tower, green top; 23.	
6678 <i>E 0682.5</i>	Port de la Madrague.	43° 14.0' N 5° 21.2' E	Fl.(3)G. period 12s				
6680 <i>E 0684</i>	Ile Tiboulén.	43° 12.9' N 5° 19.7' E	Fl.W.G. period 4s	190 58	W. 11 G. 8	White support, black top; 26.	W. 327°-142°, G.-shore, obs.-316°, G.-327°.
6684 <i>E 0683</i>	Les Goudes, W. jetty, head.	43° 13.1' N 5° 20.7' E	Iso.G. period 4s	26 8	2	White metal pyramid, green top; 16.	
6688 <i>E 0680</i>	Ile du Planier.	43° 11.9' N 5° 13.9' E	Fl.W. period 5s fl. 0.1s, ec. 4.9s	223 68	23	White tower; 216.	Obscured by Riou Island shore-284°.
6692 <i>E 0685</i>	Illet Les Empereurs.	43° 10.2' N 5° 23.7' E	Q.(6)+L.Fl.W.R. period 15s	59 18	W. 6 R. 4	White mast; 7.	W. 228°-105°, R.-112°, obs.-222°, R.-228°.
6696 <i>E 0687</i>	Cassis, W. side of entrance, S. of Fort des Leques.	43° 12.8' N 5° 32.0' E	Fl.R. period 4s fl. 1s, ec. 3s	39 12	6	Truncated red metal tower; 26.	Visible 248°-068°.
6700 <i>E 0686</i>	-Mole, head.	43° 12.8' N 5° 32.1' E	Oc.(2)G. period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	56 17	6	White tower, green top; 56.	Fl.(2)R. 6s marks head of breakwater in Port du Prado 1.2 miles NNE.
6704 <i>E 0690</i>	Banc de la Cassidaigne.	43° 08.7' N 5° 32.8' E	Fl.(2)W. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	75 23	9	ISOLATED DANGER BRB, tower, topmark; 79.	
6708 <i>E 0694</i>	Ciotat, Mole Berouard, W. side of entrance.	43° 10.4' N 5° 36.7' E	Iso.G. period 4s	49 15	11	White iron skeleton tower, green lantern; 49.	Unintensified 134°30'-228°30'.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-MEDITERRANEAN SEA							
6712 <i>E 0693.3</i>	-Pier, head.	43° 10.3' N 5° 37.0' E	Oc.(2)R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	69 21	12	White tower, red top; 59.	
6716 <i>E 0693</i>	-La Ciotat, jetty, head.	43° 10.4' N 5° 37.0' E	Fl.R. period 4s fl. 1s, ec. 3s	59 18	5	White metal tower, red top; 49.	
6720 <i>E 0695</i>	-Yacht basin, S. breakwater, head.	43° 10.5' N 5° 36.8' E	Oc.(2)G. period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	26 8	5	White tower, green top; 16.	
6724 <i>E 0697</i>	-Bassin de Capucins, E. side of entrance.	43° 10.7' N 5° 36.9' E	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	23 7	8	White tower, red top; 13.	
6732 <i>E 0698.2</i>	Les Leques, S. breakwater, SW. head.	43° 10.7' N 5° 40.8' E	Iso.G. period 4s	33 10	9	White pillar, green top; 23.	
6736 <i>E 0698</i>	-Elbow.	43° 10.8' N 5° 41.1' E	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	26 8	7	Red tower on gray and white base; 16.	
6740 <i>E 0698.4</i>	-Contra jetty, head.	43° 10.8' N 5° 40.9' E	Q.R.	10 3	6	Red tower; 7.	
6742 <i>E 0699</i>	Les Beaumelles, E. jetty, head.	43° 10.1' N 5° 41.7' E	Fl.(4)G period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	26 8	4		
6744 <i>E 0700</i>	Port Bandol.	43° 08.0' N 5° 45.5' E	Oc.(4)W.R. period 12s lt. 5s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s	30 9	W. 13 R. 10	White pylon, red top; 26.	R. 003°-351°, W.-003°.
6748 <i>E 0701</i>	-Jetee Est, head.	43° 08.0' N 5° 45.4' E	Fl.G. period 4s fl. 1s, ec. 3s	7 2	6	Green metal mast; 3.	
6752 <i>E 0702</i>	Ile de Bandol, Port Abri, E. jetty, head.	43° 07.8' N 5° 45.2' E	Oc.R. period 4s lt. 3s, ec. 1s	16 5	7	White tower, red top; 16.	
6756 <i>E 0702.4</i>	-West Jetty, head.	43° 07.8' N 5° 48.1' E	Fl.(2)G. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	10 3	6	White tower, green top; 7.	
6760 <i>E 0710</i>	Ile de Grand Rousseau.	43° 04.9' N 5° 46.1' E	Oc.(2)W. period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	148 45	15	Square tower, white dwelling; 56.	Obscured by Ile des Embiez 255°-317°. Unintensified 225°-297°.
6764 <i>E 0704</i>	Sanary-sur-Mer, W. jetty, head.	43° 06.9' N 5° 48.1' E	Fl.R. period 4s fl. 1s, ec. 3s	29 9	10	White truncated tower, red top; 30.	Obscured on bearings northward of 069°.
6768 <i>E 0706</i>	Port de la Couduriere, W. mole, head.	43° 05.8' N 5° 48.7' E	Fl.(3)R. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	30 9	6	Red support; 23.	
6772 <i>E 0708</i>	Le Brusq, NE. jetty, head.	43° 04.6' N 5° 48.2' E	Iso.G. period 4s	19 6	6	Green pylon; 19.	
6776 <i>E 0709</i>	-Jetty, head.	43° 04.6' N 5° 48.2' E	Oc.(3)W.R. period 12s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 4.5s, ec. 1.5s	33 10	W. 9 R. 6	Red pylon; 26.	W. 156°-166°, R.-156°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-MEDITERRANEAN SEA							
6776.5 E 0709.65	-Entrance.	43° 04.8' N 5° 47.2' E	Dir.Oc.W.R.G. period 4s	10 3	W. R. G.	9 7 7	White square hut. G. 198°30'-207°, W.-213°, R.- 221°30', obsc.-198°30'.
6777 E 0709.7	--Mole des Cargos, head.	43° 05.0' N 5° 47.0' E	Iso.W. period 4s	3 1			
6778 E 0709.75	--Port des Jeunes.	43° 05.0' N 5° 47.0' E	Iso.R. period 4s			4	Gray pedestal; 3.
6780 E 0709.4	Ile de la Tour Fondue, N. extremity.	43° 04.9' N 5° 47.1' E	Fl.(4)W.R. period 15s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	20 6	W. R.	8 6	White tower, red top; 13. W. 132°-275°, R.-132°.
6784 E 0709.6	Ile des Embiez, port, N. side of entrance, jetty, head.	43° 04.9' N 5° 47.1' E	Fl.G. period 4s fl. 1s, ec. 3s	16 5		6	Green pylon; 13.
6786 E 0709.8	Gueyrourard Rock, SE. of Pit- Gaou.	43° 04.1' N 5° 48.1' E	Fl.R.				Occasional.
6788 E 0713	Cap Sicie.	43° 02.9' N 5° 51.6' E	Fl.(2)W. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	154 47		9	White metal mast; 10. Partially obscured. 2 F.R. lights on radio tower 1.3 km. NW.
6792 E 0712	-Port St. Elme, jetty, head.	43° 04.5' N 5° 53.9' E	Fl.G. period 4s fl. 1s, ec. 3s	30 9		7	Dark green pylon; 22.
6796 E 0714	-Cap Cepet, (Pointe Rascas).	43° 04.2' N 5° 56.8' E	Fl.(3)W. period 15s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 8.8s	249 76		21	White square tower on black hut with red roof; 46.
TOULON:							
6808	-Approach buoy.	43° 05.0' N 5° 57.6' E	Fl.(3)Y. period 12s			SPECIAL Y, pillar, topmark.	
6820 E 0716	-St. Mandrier, jetty, head.	43° 05.2' N 5° 56.1' E	Fl.(2)R. period 10s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 7.2s	56 17		9	White tower, red top, black base; 46. Obscured by shore N. of 301°.
6822 E 0717.8	-Ecole de mecaniciens, north dike, head.	43° 05.0' N 5° 55.8' E	Fl.(2)G. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	13 4		5	Metal mast. Visible 298°-225°.
6824 E 0719.5	-Anse du Creux-SaintGeorges, W. jetty, head.	43° 04.8' N 5° 55.5' E	Fl.G. period 4s fl. 1s, ec. 3s	30 9		5	Green pylon; 26.
6828 E 0719	-Pointe de la Vieille, pier, head.	43° 05.1' N 5° 55.3' E	Q.R.	43 13		5	White column, top red; 16.
6832 E 0717	-Grand Jetty, S. head.	43° 05.4' N 5° 55.5' E	Fl.G. period 2.5s	42 13		11	White tower, black top, marked "Grand Jetee" in white; 29. Visible 186°-165°.
6834 E 0741.8	-Appontement de Tamaris.	43° 05.5' N 5° 54.1' E	Dir.Oc.(4)W.R.G. period 12s lt. 1s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s lt. 5s, ec. 1s	10 3		8	G. 338°30'-351°30', W.- 353°30', R.-006°30'.
6835 E 0741.6	-Terre-Plein.	43° 05.0' N 5° 54.0' E	Fl.(3)R. period 12s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 6.5s	13 4		2	White support, red top; 13.
6835.1 E 0741.7	-Embarcadere des Sablettes.	43° 04.8' N 5° 53.8' E	Q.W.	10 3		8	N. CARDINAL BY, tower beacon, topmark; 13.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-MEDITERRANEAN SEA							
6835.5 E 0741.2	-Pontoon, head.	43° 04.9' N 5° 54.4' E	Fl.R. period 2.5s fl. 0.5s, ec. 2s		2	White support, red top; 7.	
6836 E 0720	-Petite Passe, jetty, S. head.	43° 06.1' N 5° 55.6' E	Iso.R.G. period 4s	69 21	R. 10 G. 10	White square building; 72.	G. 266°-275°, R.-294°, G.-145°, obscured elsewhere. 4 F.R. (vert.) lights are shown from a radar tower about 350 meters NE.
6837 E 0721	-Ecueil.	43° 06.2' N 5° 55.4' E	V.Q.(9)W. period 10s	10 3		W. CARDINAL YBY, beacon, topmark.	
6840 E 0742	-Port du Mourillon, breakwater.	43° 06.4' N 5° 56.2' E	Oc.(2)G. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	33 10		7 Green pylon on white house.	
6844 E 0729	-Darse Vielle, W. side of entrance.	43° 07.1' N 5° 55.8' E	Q.R.	23 7		7 Red pylon; 30.	
6848 E 0730	--E. side of entrance.	43° 07.1' N 5° 55.8' E	Q.G.	26 8		7 White pylon, green lantern; 30.	Obscured 280°-360° over shoals.
6849 E 0732	---S.	43° 07.1' N 5° 55.8' E	Q.G.	7 2		2 White wall, green triangle.	
6852 E 0726	-Port du Commerce, N. side of entrance, S. angle of pier.	42° 07.0' N 5° 55.8' E	Oc.(2)R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	23 7		6 Red pylon; 20.	
6856 E 0727	--S. side of entrance.	43° 06.9' N 5° 55.9' E	Iso.G. period 4s	56 17		7 Green pylon; 26.	
6860 E 0734	-Graving dock, SW. corner.	43° 06.9' N 5° 55.4' E	Fl.(4)G. period 12s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	7 2		6 Green pylon; 3.	Visible 261°-091°.
6864 E 0739	-Darse de Missiessy Range, front.	43° 07.2' N 5° 54.7' E	F.Vi.	30 9		3 Mast, white and purple bands, cross; 30.	Intensified 349°-354°.
6868 E 0739.1	--Rear, about 210 meters 351°36' from front.	43° 07.4' N 5° 54.7' E	F.Vi.	52 16		3 Mast, white and purple bands, cross; 52.	Intensified 349°-354°.
6872 E 0740	--W. side of entrance.	43° 07.0' N 5° 54.8' E	Iso.R. period 4s	16 5		7 Red pylon.	
6876 E 0740.2	--E. side of entrance.	43° 07.0' N 5° 54.8' E	Iso.G. period 4s	20 6		7 Green pylon.	
6880 E 0741.4	-Bregaillon.	43° 06.5' N 5° 53.6' E	Fl.(3)G. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	7 2		1 Green dolphin; 39.	
6884 E 0741	-La Seyne, N. side of entrance to basin.	43° 06.2' N 5° 53.0' E	Fl.G. period 4s fl. 1s, ec. 3s	20 6		10 Green column; 20.	
6888 E 0744	Les Salettes, jetty, head.	43° 05.2' N 6° 04.8' E	Oc.(4)W.R. period 12s lt. 1s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s lt. 5s, ec. 1s	42 13	W. 10 R. 7	Red pylon; 26.	R. 005°-356°, W.-005°.
6892 E 0746	Port du Niel, breakwater, head.	43° 02.1' N 6° 07.7' E	Fl.R. period 4s fl. 1s, ec. 3s	22 7		7 Red pylon; 13.	Visible 298°-028°.
6896 E 0748	Ile Grand Ribaud.	43° 01.0' N 6° 08.7' E	Fl.(4)W. period 15s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	115 35		15 White tower, black lantern, hut; 52.	Obscured when bearing more than 108°, 124°-222°, when bearing less than 233°, and 262°-324°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-MEDITERRANEAN SEA							
6900 E 0749	La Tour Fondue, jetty, head.	43° 01.7' N 6° 09.3' E	Iso.G. period 4s	23 7	7	Gray tower, green top; 16.	
ILE DE PORQUEROLLES:							
6904 E 0750	-Ecuels de la Jeune Gard.	43° 00.5' N 6° 09.6' E	Q.W.R.	52 16	W. 6 R. 4	N. CARDINAL BY, tower beacon, topmark.	W. 011°-253°, R.-282°, W.-316°, R.-011°.
6908 E 0751	Cap-d'Arme.	42° 59.0' N 6° 12.4' E	Fl.(2)W. period 10s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 7.3s	262 80	29	White square tower, black top, dwelling; 65.	Visible 142°-204° and 243°- 119°. Obscured 252°-266°.
6912 E 0752	-Port de Porquerolles, new jetty, head.	43° 00.3' N 6° 12.0' E	Oc.(2)W.R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	26 8	W. 13 R. 10	White pylon, red top; 19.	W. 150°-230°, R.-150°.
6916 E 0753	Le Capte, E. jetty, head.	43° 04.0' N 6° 09.2' E	Fl.G. period 2s fl. 0.4s, ec. 1.6s	7 2	1	Green support; 7.	
LA PLAGE:							
6920 E 0754	-NE. jetty, E. side of entrance.	43° 04.8' N 6° 09.8' E	Fl.G. period 4s fl. 1s, ec. 3s	29 9	10	Green pylon; 22.	
6924 E 0754.2	-W. jetty, head.	43° 04.7' N 6° 09.5' E	Oc.R. period 4s lt. 3s, ec. 1s	29 9	7	Gray tower, red lantern; 23.	
6928 E 0754.6	-New basin, E. jetty, head.	43° 05.1' N 6° 09.7' E	Iso.G. period 4s	26 8	10	Gray structure, green top; 16.	
6932 E 0754.7	--Inner jetty, S. head.	43° 05.0' N 6° 09.7' E	Q.(6)+L.Fl.W. period 15s	26 8	10	S. CARDINAL YB, column; 16.	
6936 E 0754.8	--N. head.	43° 05.1' N 6° 09.6' E	Fl.R. period 4s fl. 1s, ec. 3s	5 2	5	Large red and gray lantern; 4.	
6940 E 0755.6	Ceinturon, jetty, head.	43° 06.1' N 6° 10.5' E	Fl.(2)G. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	19 6	6		
6944 E 0756	Les Salins (Port Pothuau), E. jetty, head.	43° 06.9' N 6° 12.1' E	Oc.(3)W.G. period 12s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	30 9	W. 13 G. 10	Dark green pylon; 26.	G. 260°-285°, W.-012°, G.-060°.
6948 E 0757	-W. jetty.	43° 06.9' N 6° 12.1' E	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	20 6	6	Red tower; 19.	
6952 E 0759	Miramar, jetty, S. head.	43° 06.9' N 6° 14.8' E	Iso.G. period 4s	26 8	7	White pylon, green top; 20.	
6956 E 0764	Cap Benat.	43° 05.3' N 6° 21.8' E	Fl.R. period 5s fl. 0.2s, ec. 4.8s	198 60	21	White tower, upper part red; 52.	Obscured 096°-207°, 288°- 327°, 330°-001°, 042°-060°. Reserve light Fl.R. 6s visible 176°-118°.
6960 E 0765.4	Le Pradet, jetty, head.	43° 05.5' N 6° 22.0' E	Fl.R. period 2s fl. 0.4s, ec. 1.6s	13 4	1	Red post; 7.	Occasional.
6964 E 0765	Bormes-Pes-Mimosas, E. jetty, head.	43° 07.5' N 6° 22.0' E	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	33 10	10	White pylon, red top; 22.	Fl.R. 2s shown at N. end of wharf of Capitainerie.
6968 E 0766	Le Lavandouj, E. jetty.	43° 08.2' N 6° 22.5' E	Iso.W.G. period 4s	26 8	W. 13 G. 10	White support, green top; 26.	G. 356°-268°, W.-316°, G.-329°, W.-356°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-MEDITERRANEAN SEA							
6972 E 0765.3	La Fourmigue, rock.	43° 06.4' N 6° 24.3' E	Fl.(2)W. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	26 8	8	Gray cubicle base; 6.	Radar reflector on black and red banded mast, double black ball topmark, 7 meters high, located 3 meters SW. of light.
6976 E 0770	Le Titan.	43° 02.8' N 6° 30.6' E	Fl.W. period 5s fl. 0.1s, ec. 4.9s	230 70	28	White tower, dwelling; 33.	Visible 154°-044°.
6984 E 0771	Cavalaire, new jetty, head.	43° 10.4' N 6° 32.3' E	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	30 9	10	White column, red top; 30.	Fl.G. 2.5s light shown about 130 meters SW.
6988 E 0772	Cap Camarat.	43° 12.1' N 6° 40.8' E	Fl.(4)W. period 15s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 7.4s	426 130	26	White square tower; 82.	Visible 190°-049°. Reserve light range 17M.
6992 E 0774	Basse de La Moutte.	43° 16.4' N 6° 42.7' E	Q.(3)W.R. period 10s	36 11	W. 9 R. 6	E. CARDINAL BYB, tower, topmark.	W. 121°-009°, R.-121°.
GOLFE DE ST. TROPEZ:							
6996 E 0782	-Pointe de Bertaud, wharf, head.	43° 15.8' N 6° 35.6' E	Iso.W.R.G. period 4s	49 15	W. 9 R. 6 G. 6	Dark green pylon on tower and house; 3.	G. 219°-227°, W.-243°, R.-253°, obscured elsewhere.
7000 E 0778	-Sainte Tropez, jetty, head.	43° 16.3' N 6° 38.0' E	Oc.(2)W.R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	23 7	W. 13 R. 9	Gray pylon, white top.	W. 228°-245°, R. elsewhere.
7004 E 0779	--S. jetty.	43° 16.3' N 6° 38.0' E	Fl.G. period 4s fl. 1s, ec. 3s		6	Green support.	
7008 E 0784	-Port de Cogolin, E. jetty, head.	43° 16.1' N 6° 35.6' E	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	23 7	10	White structure, red top; 16.	
7012 E 0784.2	--Groyne.	43° 16.1' N 6° 35.5' E	Fl.G. period 2s	7 2	1	Dark green support; 7.	
7014 E 0784.6	--N. head.	43° 16.2' N 6° 35.3' E	Q.W.	19 6	9	N. CARDINAL BY, beacon, topmark; 16.	
7016 E 0786	-Port Grimaud, N. jetty, head.	43° 16.3' N 6° 35.3' E	Fl.G. period 4s fl. 1s, ec. 3s	23 7	10	White structure, green top; 13.	Q. light shown 200 meters SSE. Fl.(2)R. 6s shown 128 meters W., from head of Epi Sud.
7018 E 0786.2	--S. spur, head.	43° 16.3' N 6° 35.2' E	Fl.R. period 4s fl. 1s, ec. 3s	23 7	6	White mast, red top; 20.	
7020 E 0790	-Seche a l'Huile.	43° 18.6' N 6° 41.1' E	Q.(6)+L.Fl.W.R. period 15s	30 9	W. 9 R. 6	S. CARDINAL YB, tower, topmark; 53.	W. 216°-075°, R.-216°.
7024 E 0788	-Sainte Maxime-sur-Mer, Jetee Sud, W. head.	43° 18.3' N 6° 38.3' E	Fl.(3)G. period 4s	26 8	14	Green and white support; 16.	
7028 E 0788.4	--Jetee Ouest, S. head.	43° 18.3' N 6° 38.2' E	Fl.R. period 2s	7 2	1	Red support.	
7032 E 0791	Les Issambres, S. breakwater, head.	43° 20.4' N 6° 41.1' E	Fl.(2)W.G. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	26 8	W. 11 G. 8	Green column, white base; 16.	W. 289°-349°, G.-289°.
7036 E 0791.4	-W. jetty, head.	43° 20.4' N 6° 41.1' E	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	7 2	4	Red structure; 3.	

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FRANCE-MEDITERRANEAN SEA							
7038 <i>E 0791.7</i>	Port Ferreol, mole, head.	43° 21.6' N 6° 43.1' E	Fl.W.R. period 4s fl. 1s, ec. 3s	16 5	W. 7 R. 5	White mast, red top; 13.	W. 250°-310°, R.-250°.
7039 <i>E 0792.4</i>	Saint Aygulf, E. jetty, head.	43° 23.6' N 6° 43.9' E	Q.R.		6		
7039.5 <i>E 0792.5</i>	Port-Frejus, S. jetty, head.	43° 25.2' N 6° 45.0' E	Fl.(4)R. period 15s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	23 7	3	White metal post, red top; 10.	
7039.6 <i>E 0792.6</i>	-N. jetty.	43° 25.2' N 6° 45.0' E	Fl.G. period 2.5s fl. 0.5s, ec. 2s	19 6	2	White metal post, green top; 10.	
7040 <i>E 0792</i>	-St. Raphael, S. jetty, head.	43° 25.4' N 6° 45.9' E	Fl.(3)G. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	43 13	10	Gray tower, dark green top; 42.	
7048 <i>E 0793.4</i>	-Santa Lucia, Bassin Nord, W. jetty, head.	43° 24.9' N 6° 46.9' E	Fl.G. period 4s fl. 1s, ec. 3s	26 8	9	Green tower; 20.	
7052 <i>E 0793</i>	--Bassin Sud, W. jetty, head.	43° 24.5' N 6° 46.9' E	Oc.(2)W.R. period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	33 10	W. 10 R. 7	Red pylon; 26.	W. 040°-057°, R.-082°, W.-130°, R.-040°.
7056 <i>E 0794</i>	--Ilot Lion de Mer.	43° 24.4' N 6° 46.5' E	Iso.W.R. period 4s	52 16	W. 13 R. 10	White support; 33.	W. 275°-249°, R.-275°.
7060 <i>E 0795</i>	Rade d'Agay.	43° 25.5' N 6° 52.3' E	Oc.W.R. period 4s lt. 3s, ec. 1s	92 28	W. 15 R. 12	White tower, red top; 52.	R. 260°-294° W.-032°. 2 F.R. shown from radio mast 6.5 km. NNE.
7064 <i>E 0795.5</i>	La Chretienne.	43° 25.3' N 6° 53.8' E	Q.(6)+L.Fl.W. period 15s	33 10	8	S. CARDINAL YB, tower, topmark; 43.	
7068 <i>E 0796</i>	La Figueirette, jetty, head.	43° 29.0' N 6° 56.0' E	Fl.(3)W.G. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	39 12	W. 13 G. 10	White column, upper part green, name in white; 30.	W. 275°-348°, G.-275°.
7070 <i>E 0796.8</i>	La Grande Vaquette.	43° 28.9' N 6° 57.2' E	Q.(3)W. period 10s	23 7	2	E. CARDINAL BYB, articulated beacon, topmark.	Radar reflector.
7072 <i>E 0797</i>	Port de la Galere, jetty, head.	43° 30.0' N 6° 57.4' E	Q.R.	30 9	7	White tower, red top, "La Galere" in white; 23.	
7074 <i>E 0797.8</i>	Pointe Saint Marc.	43° 30.0' N 6° 57.5' E	Fl.(2)G. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	23 7	5	STARBOARD (A) G, articulated beacon, topmark.	Radar reflector.
7076 <i>E 0798</i>	Theoule-sur-mer, E. jetty.	43° 30.6' N 6° 56.4' E	Oc.(2)W.R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	26 8	W. 9 R. 6	Red tower, name in white; 20.	W. 335°-265°, R.-335°.
7080 <i>E 0798.4</i>	La Rague, E. breakwater, head.	43° 30.8' N 6° 56.4' E	Iso.G. period 4s	29 9	10	White tower, green lantern; 23.	
7082 <i>E 0798.6</i>	-W. breakwater, head.	43° 30.9' N 6° 56.3' E	Fl.R. period 2.5s fl. 0.5s, ec. 2s	13 4	2	Red column, white top; 16.	
7084 <i>E 0799</i>	Mandelieu-La Napuole, outer breakwater, head.	43° 31.3' N 6° 56.7' E	Fl.(3)G. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	30 9	10	White tower, upper part green, name in white; 22.	Fl.G. 2s shown at head of spur, inner side.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-MEDITERRANEAN SEA							
7088 <i>E 0799.4</i>	-Inner breakwater, head.	43° 31.4' N 6° 56.7' E	Oc.(2)R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	7 2	2	Red metal post; 7.	
CANNES:							
7092 <i>E 0801</i>	-LeSecant, SW. point.	43° 32.8' N 7° 01.0' E	Fl.(2)G. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	33 10	4	White tower, green top; 46.	Visible 276°-178°.
7096 <i>E 0800</i>	-W. mole, head.	43° 32.7' N 7° 01.1' E	V.Q.(3)R. period 2s	72 22	8	White tower, red top; 72.	Obscured by Iles de Lerins on bearings less than 340°.
7100 <i>E 0803</i>	-Porto-Canto, Jetee Sud.	43° 32.5' N 7° 01.8' E	Fl.G. period 4s fl. 1s, ec. 3s	35 11	11	Yellow tower, dark green top; 30.	
7104 <i>E 0804</i>	--Jetee Ouest.	43° 32.5' N 7° 01.9' E	Fl.R. period 4s fl. 1s, ec. 3s	8 2	3	Red column; 13.	Obscured by Jetee Sud on bearing less than 123°.
7106	Port de Moure Rouge.	43° 32.5' N 7° 02.6' E	Fl.(4)W.G. period 15s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	23 7	W. G. 9 6	White tower, green top; 20.	G. 312°-282°, W.-312°.
7107 <i>E 0804.5</i>	Bateguier.	43° 31.5' N 7° 01.8' E	Q.(9)W. period 15s	16 5	4	W. CARDINAL YBY, beacon, topmark.	Visible 000°-275°.
7108 <i>E 0805</i>	Iles de Lerins, Les Moines.	43° 30.0' N 7° 03.1' E	Q.(6)+L.Fl.W. period 15s	39 12	9	S. CARDINAL YB, tower, topmark.	
GOLFE-JUAN:							
7112 <i>E 0806</i>	-La Fourmigue, entrance to Gulf.	43° 32.4' N 7° 05.0' E	Fl.G. period 4s fl. 1s, ec. 3s	52 16	8	Green tower, name in white; 56.	Visible 238°-234°30'.
7116 <i>E 0808</i>	-Vallauris.	43° 34.1' N 7° 03.7' E	Oc.(2)W.R.G. period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	548 167	W. R. G. 16 12 11	White square tower, black top; 62.	G. 265°-305°, W.-309°, R.-336°, W.-342°, G.-009°, obsc.-265°.
7120 <i>E 0810</i>	--Jetee Ouest, head.	43° 33.8' N 7° 04.7' E	Iso.R. period 4s	20 6	9	White column, red top; 20.	Visible 050°-250°.
7122 <i>E 0810.4</i>	--Jetee du Large, head.	43° 33.8' N 7° 04.7' E	Fl.(2)G. period 6s	33 10	10	White tower, green top; 20.	
7124 <i>E 0811</i>	-Port-Galice.	43° 33.8' N 7° 06.8' E	V.Q.(3)G. period 2s	33 10	9	White tower, green top; 26.	F.Bu., F.Vi. lights mark ski ramp 300 meters NW in summer.
7128 <i>E 0812.2</i>	-Le Crouton, S. breakwater, E. head.	43° 33.6' N 7° 07.1' E	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	20 6	5	Red tower, white base; 13.	Visible 138°-091°.
7132 <i>E 0814</i>	-Pointe d'Ilette.	43° 32.6' N 7° 07.3' E	Oc.(3)W.R.G. period 12s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 4.5s, ec. 1.5s	59 18	W. R. G. 13 9 9	White tower, black top; 49.	W. (unint.) 185°-235°, W.- 045°, R.-056°, G.-070°, R.- 090°, W.-135°, obsc.-185°.
7136 <i>E 0818</i>	La Garoupe.	43° 33.9' N 7° 08.0' E	Fl.(2)W. period 10s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 7.4s	341 104	31	White square tower, red lantern; 95.	Signal station.
7140 <i>E 0819</i>	Digue du Large, head.	43° 35.4' N 7° 08.0' E	Fl.(4)W.R. period 15s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	49 15	W. R. 15 11	Tower, white to seaward, yellow to landward, red top; 33.	W. 160°-328°, R.-160°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-MEDITERRANEAN SEA							
7144 <i>E 0819.6</i>	-Du Fort Carre, head, W. side of entrance.	43° 35.3' N 7° 07.9' E	Iso.G. period 4s	33 10	5	Round orange tower, green lantern; 23.	Visible 003°-048°, 186°-218°. Unintensified 218°-003°.
7152 <i>E 0819.5</i>	-Mole des Cing Cents Francs, head.	43° 35.1' N 7° 07.7' E	F.Vi.	52 16	2	White tower, red top; 38.	Obscured 232°-335°.
BAIE DES ANGES:							
7160 <i>E 0818.6</i>	-Marina, S. breakwater, head.	43° 38.0' N 7° 08.5' E	Oc.(2)R. period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	20 6	7	White tower, red top; 16.	
7164 <i>E 0818.7</i>	--E. breakwater, head.	43° 38.0' N 7° 08.5' E	Fl.G. period 4s fl. 1s, ec. 3s	42 13	9	White tower, green top, name in green; 33.	
7168 <i>E 0821</i>	-St. Laurent-du-Var, breakwater, head.	43° 39.4' N 7° 11.0' E	Fl.(3)W.G. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	33 10	W. 11 G. 8	White tower, green top; 26.	W. 310°-055°, G.-310°.
NICE:							
7184 <i>E 0822</i>	-Outer jetty, head.	43° 41.4' N 7° 17.3' E	Fl.R. period 5s fl. 0.1s, ec. 4.9s	69 21	20	White square tower, red lantern, white cupola; 71.	
7188 <i>E 0823</i>	-E. side, on breakwater, head.	43° 41.5' N 7° 17.4' E	Fl.G. period 4s fl. 1s, ec. 3s	16 5	7	White column, dark green top; 16.	
7192 <i>E 0824</i>	-Bassin du Commerce, W. side of entrance.	43° 41.5' N 7° 17.3' E	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	20 6	7	White column, red top; 16.	
7196 <i>E 0825</i>	--E. side, on jetty, head.	43° 41.5' N 7° 17.3' E	Fl.(2)G. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	20 6	7	White column, dark green top; 13.	
7200 <i>E 0824.2</i>	-Bassin des Amiraux, W. side of entrance.	43° 41.5' N 7° 17.2' E	Fl.R. period 4s fl. 1s, ec. 3s	20 6	7	Red metal structure; 13.	
7204 <i>E 0825.2</i>	--E. side, on jetty, head.	43° 41.6' N 7° 17.2' E	Fl.G. period 4s fl. 1s, ec. 3s	20 6	7	White column, dark green top; 16.	
7208 <i>E 0830</i>	Villefranche.	43° 42.0' N 7° 18.7' E	Q.W.R.	27 8	W. 12 R. 8	White square building, red lantern, white cupola; 30.	R. 009°-286°, W.-311°, R.-335°, W.-009°.
7212 <i>E 0832</i>	-Mole de la Sante.	43° 42.2' N 7° 18.8' E	Fl.(4)R. period 15s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	33 10	7	White column, top and base red; 20.	
7216 <i>E 0828</i>	Cap Ferrat.	43° 40.5' N 7° 19.7' E	Fl.W. period 3s fl. 0.1s, ec. 2.9s	225 69	25	White and green tower; 106.	
7220 <i>E 0833</i>	Saint Jean-Cap Ferrat, Jetee Abri, head.	43° 41.5' N 7° 20.2' E	Fl.(4)R. period 12s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	30 9	9	White column, red top; 30.	
BEAULIEU-SUR-MER:							
7224 <i>E 0836</i>	-Detached breakwater, N. head.	43° 42.5' N 7° 20.4' E	Q.R.	23 7	10	White tower, red top; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-MEDITERRANEAN SEA							
7228 <i>E 0836.2</i>	--S. head.	43° 42.3' N 7° 20.3' E	Iso.G. period 4s	23 7	8	White tower, dark green top; 13.	
7232 <i>E 0838</i>	Eze-sur-Mer.	43° 43.0' N 7° 21.2' E	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	20 6	9	White structure, red top and base; 20.	
MONACO							
7236 <i>E 0842</i>	-Monte Carlo, N. breakwater, head.	43° 44.2' N 7° 25.7' E	Fl.(3)G. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	52 16	12	Octagonal white tower, green top; 33.	
7240 <i>E 0840</i>	--S. breakwater, head.	43° 44.1' N 7° 25.7' E	Fl.(3)R. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	52 16	12	Octagonal white tower, red top; 33.	
7244 <i>E 0839</i>	-Fontvielle, S. jetty, head.	43° 43.7' N 7° 25.4' E	Oc.(2)R. period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	33 10	10	White column, red top; 16.	AERO Mo.(MC)W. 30s 10m (occas), lighted in low visibility 460 meters SW.
7248 <i>E 0839.2</i>	--Buffer jetty, head.	43° 43.7' N 7° 25.4' E	Fl.G. period 4s fl. 1s, ec. 3s	16 5	7	Green lantern on sea wall; 3.	
7256 <i>E 0838.4</i>	Cap d'Ail S. breakwater SW. extremity.	43° 43.4' N 7° 24.9' E	Fl.G. period 4s fl. 1s, ec. 3s	36 11	10	Green concrete pedestal; 30.	Visible 262°-172°.
7260 <i>E 0838.42</i>	--NW. extremity.	43° 43.4' N 7° 24.9' E	Fl.G. period 4s fl. 1s, ec. 3s	23 7	6		Visible 172°-262°.
7264 <i>E 0838.44</i>	-W. jetty, head.	43° 43.5' N 7° 25.0' E	Fl.R. period 4s fl. 1s, ec. 3s	16 5	5		
FRANCE-MEDITERRANEAN SEA							
7268 <i>E 0848</i>	Menton, jetty, head.	43° 46.5' N 7° 30.7' E	V.Q.(4)R. period 3s	52 16	10	White tower, red top; 52.	Obscured by Cap Martin when bearing more than 036°.
7272 <i>E 0849</i>	Menton-Garavan, breakwater, head.	43° 47.0' N 7° 31.4' E	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	36 11	10	White and red tower; 33.	
7276 <i>E 0850</i>	-N. mole, head.	43° 47.0' N 7° 31.4' E	Fl.G. period 4s fl. 1s, ec. 3s	10 3	2	White tubular metal post, dark green top; 5.	

Section 6

Corsica, Sardinia and Northwest Coast of Italy

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ITALY-WEST COAST							
7280 <i>E 1147</i>	Bordighera, mole, head.	43° 46.8' N 7° 40.7' E	2 F.R. (vert.)	36 11 30 9	3	Post; 26.	Private. Vessels should pass not closer than 100 meters.
7284 <i>E 1147.4</i>	Capo Pino, outer breakwater, head.	43° 47.5' N 7° 44.8' E	F.R.	23 7	3	Red post; 16.	Private.
7288 <i>E 1147.6</i>	-Inner mole, head.	43° 47.5' N 7° 44.8' E	F.G.	23 7	3	Green post; 16.	Private.
SAN REMO:							
7292 <i>E 1149</i>	-Molo Sud, head.	43° 48.9' N 7° 47.3' E	L.F.I.R. period 5s fl. 2s, ec. 3s	36 11	8	Red metal column on pedestal; 18.	Vessels should pass not closer than 25 meters.
7294 <i>E 1149.05</i>	--Finger, mole, head.	43° 48.9' N 7° 47.2' E	F.R.	16 5	2	Red post; 12.	
7296 <i>E 1149.2</i>	-Molo Foraneo, head.	43° 48.9' N 7° 47.3' E	L.F.I.G. period 5s fl. 2s, ec. 3s	36 11	4	Green post; 23.	Vessels should not pass closer than 60 meters.
7300 <i>E 1150</i>	-Inner breakwater, head.	43° 48.9' N 7° 47.1' E	F.G.	20 6	4	Green mast; 16.	
7304 <i>E 1150.4</i>	-Porto Sole.	43° 49.0' N 7° 47.3' E	F.R.	10 3	2		
7308 <i>E 1150.6</i>	--S. side of entrance.	43° 49.0' N 7° 47.0' E	F.G.	10 3	2		
7312	San Martino radio tower.	43° 49.2' N 7° 47.7' E	2 F.I.R. period 2.5s fl. 1s, ec. 1.5s	256 78		Radio tower.	Two lights at top.
7316 <i>E 1152</i>	Capo Verde.	43° 49.0' N 7° 49.9' E	FI.(2)W. period 15s fl. 0.3s, ec. 3.4s fl. 0.3s, ec. 11s	164 50	24	White round tower on white building, black bands; 49.	
IMPERIA:							
7320 <i>E 1156</i>	-Imperia Ponente.	43° 52.5' N 8° 01.7' E	Iso.W. period 4s	36 11	16	White tower; 36.	Visible 210°-090°. Reserve light range 10M.
7324 <i>E 1157.2</i>	--On spur.	43° 52.5' N 8° 01.2' E	2 F.R. (vert.)	30 9	3	Red post.	2 meters apart.
7328 <i>E 1157</i>	--S. mole, head.	43° 52.4' N 8° 01.8' E	F.I.R. period 3s fl. 1s, ec. 2s	31 9	8	Column, red metal bands, on pedestal; 18.	Vessels should pass not closer than 50 meters.
7332 <i>E 1158</i>	--N. mole, head.	43° 52.6' N 8° 01.4' E	FI.G. period 3s fl. 1s, ec. 2s	28 9	8	Green tower; 22.	Visible 252°-044°.
7336 <i>E 1160</i>	-- S. mole, root.	43° 52.6' N 8° 01.3' E	F.R.	26 8	3	Red mast; 15.	Visible 102°-290°.
7340 <i>E 1162</i>	-Imperia Levante (Oneglia), S. head of E. mole.	43° 53.0' N 8° 02.5' E	FI.(2)G. period 7s fl. 1s, ec. 1s fl. 1s, ec. 4s	35 11	8	White conical tower, black bands; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ITALY-WEST COAST							
7344 E 1164	--W. mole, head.	43° 52.1' N 8° 02.5' E	Fl.(2)R. period 7s fl. 1s, ec. 1s fl. 1s, ec. 4s	28 9	9	Red conical tower; 20.	
7348 E 1166	Diana Marina, outer mole, head.	43° 54.5' N 8° 05.2' E	F.G.	30 9	3	Green post; 16.	
7352 E 1166.2	--Mole, head.	43° 54.4' N 8° 05.1' E	F.R.	30 9	3	Red post; 16.	
7356 E 1168	Capo Mele.	43° 57.7' N 8° 09.6' E	Fl.(3)W. period 15s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 8.8s	308 94	24	White octagonal structure, two galleries, attached to red three-story dwelling; 82.	Visible 196°-056°. Aeromarine light.
7360 E 1169	Laigueglia, on pier.	43° 58.7' N 8° 09.7' E	F.R.	30 9	3	Red post; 23.	Private light.
7364 E 1170	Alassio, T-head pier.	44° 00.3' N 8° 10.4' E	2 F.R.	27 8	2	Red masts, one on each corner of head; 13.	
7368 E 1171	--Molo Foraneo, head.	44° 01.1' N 8° 11.7' E	Fl.R. period 3s fl. 1s, ec. 2s	30 9	5	Red mast; 26.	
7380 E 1171.4	Loano.	44° 08.0' N 8° 16.1' E	2 F.R. (vert.)	30 9 24 7	3 4	Red mast; 23.	Private light.
7384 E 1171.5	--Inner breakwater, head.	44° 07.9' N 8° 16.0' E	2 F.G. (vert.)	30 9 24 7	3 3	Green mast; 26.	Private light.
7388 E 1171.6	Pietra Ligure.	44° 08.8' N 8° 17.3' E	F.R.G. (vert.)	33 10 28 9	R. G. 3 3	3 Post, red and green bands; 16.	
7392 E 1171.7	Finale Ligure, harbor mole, head.	44° 10.0' N 8° 22.0' E	2 F.R. (vert.)	29 9 23 7	4	Mast, red and white bands; 19.	Private light.
7395 E 1171.8	--Submerged mole, head.	44° 10.5' N 8° 22.2' E	2 F.G. (vert.)	23 7 16 5	4	Green pile.	
7396 E 1172	Capo di Vado.	44° 15.4' N 8° 27.2' E	Fl.(4)W. period 15s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 5s	141 43	16	White octagonal tower, red stripes, dwelling; 112.	Obscured from the anchorage above Capo di Vado when bearing less than 173° and to the S. when obscured by Bergeggi Island 012°-017°. Reserve light range 11M.
RADA DI VADO:							
7408 E 1175.1	--Vado Ligure.	44° 15.8' N 8° 26.6' E	Iso.G. period 2s 2 F.R. (vert.)	65 20 58 18	2	Post, black and red bands; 65.	At night, in line with Pontile, Occasional. Formicoke Light, leads to Pontile Shell.
7416 E 1182.3	--Oil terminal.	44° 16.7' N 8° 27.6' E	Fl.Y. period 3s	16 5	2	Yellow mast.	Occasional.
7420 E 1175	--Pontile Fornicoke.	44° 16.0' N 8° 26.9' E	F.R.W.R. (vert.)	38 12 33 10 28 9	R. W. R. 3 3	3 White mast, red bands; 23.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ITALY-WEST COAST							
7440 E 1180	-Pontile Esso.	44° 16.2' N 8° 26.8' E	3 F.G. (vert.)	31 9 26 8 21 6	3	Green mast; 20.	Private light.
7448 E 1185	-Pontile Enel.	44° 16.5' N 8° 26.9' E	2 F.G. (horiz.)	33 10	3	Green mast; 23.	
7452 E 1185.2	--N. corner.	44° 16.6' N 8° 26.8' E	2 F.R. (horiz.)	33 10	3	Red mast; 23. 113	
7456 E 1186	-Pontile I.P. Range, front.	44° 16.7' N 8° 26.9' E	2 F.G. (vert.)	31 9 26 8	3	Green mast; 20.	Private light.
7460 E 1186.1	--Rear, 500 meters 322° from front.	44° 16.9' N 8° 26.8' E	Fl.R. period 3s fl. 1s, ec. 2s 2 F.R. (vert.)	59 18	3	Tower, red and white bands, 49.	Private light (occas.).
7472 E 1181.9	-Pontile Vadoil Range, front.	44° 16.4' N 8° 26.9' E	3 F.R. (horiz.)	26 8	3	Red mast; 11.	Private light.
7476 E 1182	--Rear, 650 meters 264° from front.	44° 16.3' N 8° 26.4' E	Fl.G. period 3s fl. 1s, ec. 2s 2 F.G. (vert.)	66 20	3	Green mast.	Private light (occas.).
7484 E 1188	-Pontile Chevron.	44° 17.4' N 8° 27.8' E	F.G.R. (vert.)	29 9 26 8	R. 3	Red mast, green bands on hut; 19.	Private light.
SAVONA:							
7490 E 1193	--Breakwater extension, head.	44° 18.8' N 8° 30.3' E	Fl.R. period 2s fl. 0.5s, ec. 1.5s	31 9	7	Red tower; 18.	
7492 E 1194	-Mole Frangiflutti, head.	44° 18.9' N 8° 30.2' E	F.R.	28 9	5	Red column; 18.	
7496 E 1197	-Molo Miramare, head.	44° 18.8' N 8° 29.5' E	2 F.G. (vert.)	36 11 33 10	4	Green column; 26.	
7500 E 1196	-Mole Sottoflutto, head.	44° 19.0' N 8° 29.8' E	Fl.G. period 2s fl. 0.5s, ec. 1.5s	30 9	7	Green column; 18.	
7504 E 1198	Varazze, Molo Frangiflutti, head.	44° 21.1' N 8° 34.2' E	2 F.R. (vert.)	31 9 26 8	3	Red post; 16.	To avoid reef, vessels should pass not closer than 40 meters.
7508 E 1199	-Molo Sottoflutto, head.	44° 21.1' N 8° 34.1' E	F.G.	15 5	3	Green post; 10.	
7512 E 1199.2	-Molo Frangiflutti, head.	44° 21.1' N 8° 34.1' E	F.R.	13 4	3	Red post; 10.	
7516 E 1201	Arenzano, outer mole, head.	44° 24.0' N 8° 41.3' E	F.R.	36 11	3	Pile, red and white bands; 20.	
7520 E 1201.3	-Inner mole, head.	44° 24.0' N 8° 41.0' E	F.G.		3		
7524 E 1202.6	-Inner mole, head.	44° 25.0' N 8° 46.7' E	Iso.R. period 2s	36 11	5	Red metal pedestal; 16.	
7528 E 1202	-Detached breakwater, W. head.	44° 24.8' N 8° 46.5' E	Iso.W.G. period 2s	52 16	W. 11 G. 8	Tower.	W. 282°-077°, G.-282°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ITALY-WEST COAST							
7532 <i>E 1202.4</i>	--Elbow.	44° 24.6' N 8° 47.7' E	Fl.W. period 2s	46 14	7	White metal pillar.	
7533 <i>E 1202.2</i>	--E. head.	44° 25.3' N 8° 48.6' E	Fl.R. period 3s	30 9	6	Red column; 16.	Private light.
GENOVA-MULTEDO:							
7536 <i>E 7010</i>	-Oil pipeline terminal platform.	44° 24.1' N 8° 48.5' E	Mo.(U)Y. period 15s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 2s, ec. 10s	75 23	7	Yellow post on white metal tower, black bands; 75.	
7538 <i>E 7010.5</i>	--SE. Oil terminal.	44° 23.7' N 8° 49.9' E	Fl.Y. period 4s fl. 1s, ec. 3s	36 11	6	Yellow structure; 26.	
7540 <i>E 1212</i>	-Molo di Multedo.	44° 25.1' N 8° 49.8' E	Q.R.	33 10	7	Red column.	
7544 <i>E 1208</i>	-Diga Foranea dell' Aeroporto, W. head.	44° 24.8' N 8° 49.1' E	Oc.W. period 3s lt. 2s, ec. 1s	33 10	12	White tower, black bands; 16.	
GENOVA:							
7556 <i>E 1208.2</i>	-Diga di Cornigliano.	44° 23.9' N 8° 52.9' E	Fl.R. period 2s fl. 0.5s, ec. 1.5s	44 13	6	Post on pedestal, red and white bands; 17.	
7560 <i>E 1208.6</i>	-Diga Foranea.	44° 24.1' N 8° 52.6' E	Q.G.	33 10	4	Green column, 18.	
7564 <i>E 1208.8</i>	--Spur projecting, N. head.	44° 24.2' N 8° 52.4' E	Fl.G. period 1.5s fl. 0.5s, ec. 1s	23 7	4	Green tower; 10.	
7568 <i>E 1206</i>	-Lanterna.	44° 24.3' N 8° 54.3' E	Fl.(2)W. period 20s fl. 0.2s, ec. 4.8s fl. 0.2s, ec. 14.8s	384 117	25	Square tower on dwelling; 249.	Reserve light range 18M. Signal station.
			Oc.R. period 1.5s	390 119	10	Cupola of same structure.	
7576 <i>E 1218</i>	-Duca di Galliera Mole, old head.	44° 23.8' N 8° 55.9' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	43 13	6	Pyramidal tower, red and white bands; 19.	Obscured southward 303°-115°.
7580 <i>E 1219</i>	--New head.	44° 23.3' N 8° 56.3' E	Fl.R. period 4s fl. 1s, ec. 3s	59 18	15	Red mast.	
7584 <i>E 1220</i>	--New mole, S. head.	44° 23.6' N 8° 56.1' E	Fl.G. period 4s fl. 1s, ec. 3s	46 14	7	Column.	2 F.G. (vert.) 3M marks pier 150 meters ENE.
7585 <i>E 1221</i>	--Molo Umberto Cagni, W. head.	44° 23.8' N 8° 55.6' E	Fl.G. period 3s fl. 1s, ec. 2s	33 10	8	Green column; 18.	
7592 <i>E 1217</i>	-Spur, E. entrance, head.	44° 23.6' N 8° 55.6' E	Fl.R. period 3s fl. 1s, ec. 2s	36 11	7	White pole, red bands; 18.	Visible only within confines of harbor.
7596 <i>E 1216</i>	-Bacino della Lanterna, NE. corner.	44° 23.8' N 8° 55.0' E	Fl.(3)R. period 7s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3.5s	33 10	7	White tower, red bands; 18.	
7600 <i>E 1225</i>	-Calata dolla Sanita, on E. angle.	44° 24.2' N 8° 55.2' E	Fl.R. period 3s fl. 1s, ec. 2s	26 8	8	Red metal column on pedestal; 16.	Locally maintained. Reserve light F.R.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ITALY-WEST COAST							
7604 E 1226	-Molo Vecchio.	44° 24.4' N 8° 55.2' E	FL.G.	26 8	7	Green tower; 18.	Locally maintained.
7608 E 1215	-Calata Olii Minerali.	44° 23.9' N 8° 55.0' E	FL.(3)G. period 7s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3.5s	33 10	7	Green column; 25.	
7612 E 1230	-Punta Vagno.	44° 23.5' N 8° 57.2' E	L.FI.(3)W. period 15s fl. 2s, ec. 1s fl. 2s, ec. 1s fl. 2s, ec. 7s	85 26	16	White conical tower; 28.	Reserve light range 9M.
7616	--Grattacielo.	0° 00.0' 0° 00.0'	Oc.R. period 2s				
7620 E 1233	-Nervi, jetty, head.	44° 22.9' N 9° 01.9' E	2 F.R. (vert.)	23 7 19 6	3		
7624 E 1236	Camogli, outer breakwater, head.	44° 21.1' N 9° 09.0' E	FI.W. period 3s fl. 1s, ec. 2s	39 12	9	White round tower; 23.	F.G., F.R. (vert.) shown from pier on N. side of entrance.
7628 E 1238	-On spur, inner side of breakwater.	44° 21.1' N 9° 09.1' E	FL.G. period 5s fl. 1s, ec. 4s	21 6	4	White mast, black bands; 13.	Visible 110°-335°.
7632 E 1237	-Jetty, at root.	44° 21.1' N 9° 09.1' E	FI.R. period 5s fl. 1s, ec. 4s	21 6	3	White mast, red bands; 16.	
PORTOFINO:							
7636 E 1244	-Punta di Portofino.	44° 17.9' N 9° 13.2' E	FI.W. period 5s fl. 1s, ec. 4s	131 40	15	Tower, two-story white masonry house; 39.	Visible 155°-098°. FI.R. lights are shown from several radio masts. Reserve light range 10M.
7640 E 1246	-N. side of entrance.	44° 18.2' N 9° 12.8' E	2 F.G. (vert.)	30 9 23 7	3	Pier-table.	
7644 E 1248	-Punta del Coppo.	44° 18.2' N 9° 12.9' E	FI.R. period 3s fl. 0.5s, ec. 2.5s	33 10	7	Hut, red and white bands 18.	
7648 E 1254	Santa Margherita Ligure, mole, head.	44° 19.8' N 9° 13.1' E	FI.R. period 4s fl. 1s, ec. 3s	33 10	8	Red post; 15.	
7652 E 1255.5	Rapallo, Molo Langano, head.	44° 20.6' N 9° 14.0' E	F.R.G	20 6	3		G. 220°-040°, R.-220°.
7656 E 1256.2	Molo di Levante.	44° 20.6' N 9° 14.1' E	2 F.R. (vert.)	23 7 20 6	3	Red post.	
7657 E 1256	Pennello Boate.	44° 20.7' N 9° 14.0' E	2 F.G. (vert.)	26 8	3		
7660 E 1255	-Outer breakwater, elbow.	44° 20.6' N 9° 14.1' E	FI.W. period 3s fl. 1s, ec. 2s	29 9	9	White tower; 18.	
7664 E 1257	-Molo Foraneo, head.	44° 18.7' N 9° 19.1' E	L.FI.G. period 6s fl. 2s, ec. 4s	36 11	6	Green post; 16.	
7668 E 1257.2	--Spur.	44° 18.6' N 9° 19.3' E	F.G.	16 5	2	Post, black and white bands.	
7672 E 1257.4	-Molo Sottofluto, head.	44° 18.7' N 9° 19.3' E	F.R.	16 5	2	Red post.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ITALY-WEST COAST							
LAVAGNA:							
7676 E 1257.7	-Molo Foraneo.	44° 18.1' N 9° 20.6' E	L.F.I.R. period 6s fl. 2s, ec. 4s	39 12	6	White column, red bands.	To avoid reef vessels should pass not closer than 60 meters.
7680 E 1257.8	--T-head.	44° 18.2' N 9° 20.5' E	F.R.		2	Mast, red and white bands.	
7684 E 1257.9	-Molo Sottofluto.	44° 18.2' N 9° 20.6' E	F.G.		2	Mast, black and white bands.	
7692 E 1258	Sestri Levante.	44° 16.3' N 9° 23.1' E	F.G.	44 13	4	Post, black and white bands; 26.	Private light.
GOLFO DELLA SPEZIA:							
7696 E 1262	-Isola del Tino.	44° 01.6' N 9° 51.0' E	Fl.(3)W. period 15s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 8.8s	384 117	25	White cylindrical tower; 79.	Reserve light range 15M.
	-RACON		TI(- ••) period 30s		18		
7700 E 1265	-Portovenere.	44° 03.0' N 9° 50.2' E	F.R.	20 6	3	Red column; 13.	Visible 085°-025°. Private light.
7704 E 1265.4	-Molo Olivo, head.	44° 03.1' N 9° 50.3' E	F.G.	20 6	3	Green column; 13.	Private light.
7708 E 1263	-Scoglio Torre della Scuola.	44° 03.1' N 9° 51.6' E	Fl.(2)W. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	52 16	10	White tower; 7.	
-La Spezia:							
7720 E 1268	--Punta Santa Maria.	44° 04.0' N 9° 51.1' E	Fl.R. period 4s fl. 1s, ec. 3s	36 11	9	Red tower; 23.	
7724 E 1269	--Detached breakwater, SW. head.	44° 04.1' N 9° 51.4' E	Fl.G. period 4s fl. 1s, ec. 3s	36 11	9	Green tower; 30.	
7728 E 1323	--Seno di Panigaglia.	44° 04.6' N 9° 50.2' E	2 F.G. (vert.)	26 8 23 7	3	Green pole; 16.	Private light.
7732 E 1300	---Cadimare Mole.	44° 05.2' N 9° 50.0' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	21 6	5	Red post; 18.	
7736 E 1302	---S. entrance to port, inner detached breakwater, S. head.	44° 05.3' N 9° 50.1' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	21 6	7	Green post; 18.	
7740 E 1304	---Inner detached breakwater, N. angle.	44° 05.6' N 9° 50.1' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	23 7	11	White iron post; 18.	
7744 E 1312	---Entrance Range, front.	44° 05.8' N 9° 49.0' E	Fl.W.R.G. period 3s fl. 1s, ec. 2s	69 21	W. 8 R. 6 G. 6	White truncated pyramidal tower, red stripe; 20.	G. 297°-305°15', W.-306°45', R.-315°.
7748 E 1312.1	----Pegazzano, 1.02 km. 306° from front.	44° 06.1' N 9° 48.3' E	Iso.W. period 4s	157 48	16	Pentagonal red and white stone tower; 44.	Visible 302°-310°.
7752 E 1319	---S. side of entrance to basin No. "1".	44° 05.6' N 9° 49.3' E	F.R.	37 11	3	Red framework tower; 33.	Private light.
7756 E 1318	---N. side of entrance to Basin No. "1".	44° 05.7' N 9° 49.3' E	F.G.	57 17	3	Green post; 52.	Private light.

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ITALY-WEST COAST							
7760 E 1292	--Mirabello Molo, N. head.	44° 06.0' N 9° 49.7' E	Iso.R. period 2s	21 6	4	Red tower; 15.	
7764 E 1290	--Italia Molo, head.	44° 06.2' N 9° 50.1' E	Fl.R. period 4s fl. 1s, ec. 3s	26 8	8	Red tower; 25.	
7768 E 1288	--Molo Garibaldi, S. head.	44° 06.2' N 9° 50.3' E	Fl.G. period 4s fl. 1s, ec. 3s	23 7	8	Green structure; 18.	
7772 E 1285.2	--Verzocchi Quay, N. corner.	44° 06.5' N 9° 51.2' E	2 F.R. (vert.)	36 11 30 9	3	Red framework tower; 30.	Private light.
7776 E 1285.4	--Verzocchi Quay, S. corner.	44° 06.4' N 9° 51.2' E	2 F.G. (vert.)	36 11 30 9	3	Green framework tower; 30.	Private light.
7780 E 1285	--Pontile ENEL.	44° 06.1' N 9° 51.2' E	F.G.R. (vert.)	20 6 13 4	3	Green and red post; 16.	Private light.
7784 E 1284	--Molo dei Pagliari.	44° 06.1' N 9° 51.4' E	F.R.G. (vert.)	26 8 21 6	3	Post, red and green bands; 20.	Private light.
7788 E 1283	--Pontile INMA, head.	44° 06.0' N 9° 51.5' E	2 F.G.	26 8	3	Post, red and green bands; 20.	Fl.G. 3s 5M and Fl.R. 3s 5M shown from breakwater heads about 330 meters S. Private light.
			2 F.R. (horiz.)	21 6	3		
7789 E 1282.2	--Porto Lotti entrance, S.	44° 05.9' N 9° 51.4' E	Fl.G. period 3s fl. 1s, ec. 2s	23 7	5	STARBOARD (A) G, post; 16.	Private light.
7790 E 1282.4	---N.	44° 05.8' N 9° 51.5' E	Fl.R. period 3s fl. 1s, ec. 2s	23 7	5	PORT (A) R, post; 16.	Private light.
7792 E 1281.2	--Beacon.	44° 05.7' N 9° 51.8' E	F.R.	23 7	3	Red concrete post; 16.	Private light.
7796 E 1281	--Beacon.	44° 05.6' N 9° 51.8' E	F.G.	23 7	3	Green concrete post; 16.	Private light.
7800 E 1280.2	--Porticciolo San Bartolomeo.	44° 05.6' N 9° 51.9' E	F.R.	20 6	3	Red post; 16.	Fl.R. shown from radio mast about 412 meters N. Private light.
7804 E 1280	---S. side of entrance.	44° 05.6' N 9° 51.8' E	F.G.	20 6	3	Green concrete post; 16.	Private light.
7808 E 1278	--Mole del Muggiano, head.	44° 05.2' N 9° 52.2' E	F.G.	26 8	3	Green concrete post; 20.	Private light.
7812 E 1270	--Outer detached breakwater, E. head.	44° 04.8' N 9° 52.8' E	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	33 10	8	Red masonry tower; 26.	
7816 E 1270.2	---Spur, ESE. from extremity.	44° 04.7' N 9° 52.8' E	Iso.R. period 2s	29 9	4	Red metal column; 16.	
7820 E 1274	--Punta Santa Teresa.	44° 04.8' N 9° 52.9' E	Fl.(2)G. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	33 10	8	Green masonry tower; 15.	
7824 E 1324	Lerici.	44° 04.4' N 9° 54.4' E	2 F.G. (vert.)	24 7 19 6	3	Green post.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ITALY-WEST COAST							
7828 E 1326	Capo Corvo.	44° 02.1' N 9° 56.6' E	Fl.Y. period 2s fl. 0.5s, ec. 1.5s	16 5	6	SPECIAL Y, beacon, topmark.	Identical beacon 2330 meters NW. Radar reflector.
7832 E 1328	Marina di Carrera.	44° 02.1' N 10° 02.3' E	Fl.W. period 3s fl. 1s, ec. 2s	72 22	17	White quadrangular tower; 72.	Reserve light range 9M.
7836 E 1329	-Diga Foranea, head.	44° 01.7' N 10° 02.5' E	Fl.R. period 3s	43 13	3	Post, red and white bands; 16.	
7840 E 1330	-Molo di Levante.	44° 01.7' N 10° 02.5' E	Iso.G. period 2s	33 10	5	Green column on pedestal; 18.	
7844 E 1330.4	Marina di Massa.	44° 00.1' N 10° 06.5' E	F.G.R. (vert.)	33 10 26 8	3 4	Red mast, green bands; 20.	
7848 E 1331	Fiume Cinquale.	43° 58.7' N 10° 08.6' E	F.R.	23 7	3	Red mast; 16.	A F.G. light is shown on S. side of entrance occasionally.
7852 E 1334	Forte dei Marmi.	43° 57.3' N 10° 09.9' E	F.R.	19 6	3	Red post; 11.	
7856 E 1340	Viareggio.	43° 51.7' N 10° 14.8' E	Fl.W. period 5s fl. 0.3s, ec. 4.7s	98 30	22	White round tower; 104.	Reserve light range 18M.
7860 E 1342	-Nuevo Diga Foranea, head.	43° 51.7' N 10° 14.1' E	Iso.G. period 3s	30 9	9	Green post.	
7864 E 1341	- N. mole, head.	43° 51.7' N 10° 14.2' E	Iso.R. period 3s	30 9	7	Red post; 18.	
FIUME ARNO:							
7868 E 1347	-S. breakwater, head.	43° 40.6' N 10° 16.1' E	F.G.	19 6	3	Green post; 13.	
SECCHIE DELLA MELORIA:							
7872 E 1347.8	-N., on NW. extremity of shoals.	43° 35.5' N 10° 27.7' E	Fl.(2)W. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	59 18	10	Cylindrical masonry tower; 66.	
7874 E 1348.5	-NE. extremity of of shoal.	43° 35.3' N 10° 15.5' E	Q.(3)W. period 10s	16 5	7	E. CARDINAL BYB, articulated light, topmark.	
7876 E 1348	-Bank, S. edge.	43° 32.8' N 10° 13.2' E	Q.(6)+L.Fl.W. period 15s	59 18	12	S. CARDINAL YB, tower, topmark; 57.	
LIVORNO (LEGHORN):							
7880 E 1358	-Diga Meloria, head.	43° 33.4' N 10° 17.2' E	Fl.(3)W.G. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	39 12	W. G. 9 7	Green post; 18.	Visible W. 064°-138°, G.-341°.
7882 E 1359	--520 meters SSE.	43° 33.2' N 10° 17.7' E	Fl.W. period 3s fl. 1s, ec. 2s	33 10	4	White mast; 23.	Visible 222°-229°.
7884 E 1370	-Diga Curvilinea, N. head.	43° 33.1' N 10° 17.4' E	Fl.R.G. period 3s fl. 0.5s, ec. 2.5s	23 7	5	Column, red and green bands; 18.	G. 160°-288°, R.-048°, obsc.- 160°.
7888 E 1368	--S. head.	43° 32.5' N 10° 17.4' E	Fl.W.R. period 3s fl. 1s, ec. 2s	72 22	W. R. 11 9	Octagonal tower; 67.	R. 180°-078°, W.-139°, obsc.- 180°. Articulated beacon Fl.G. 3s 430 meters SSE.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ITALY-WEST COAST							
7892 <i>E 1356</i>	-Livorno.	43° 32.5' N 10° 17.7' E	Fl.(4)W. period 20s fl. 0.2s, ec. 3.1s fl. 0.2s, ec. 3.1s fl. 0.2s, ec. 3.1s fl. 0.2s, ec. 9.9s	171 52	24	Round masonry tower; 171.	Radiobeacon.
	-RACON		L(- • - -) period 30s		19		
7896 <i>E 1360</i>	-Diga Marzocco, head.	43° 33.4' N 10° 17.5' E	Fl.(3)R. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	39 12	7	Red column on pedestal; 18.	
7912 <i>E 1376.2</i>	--Head.	43° 33.1' N 10° 17.8' E	Fl.(2)R. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	26 8	6	Iron column on round hut, red and white bands; 18.	Visible 281°-135°.
7916 <i>E 1376.4</i>	--Head, E. corner.	43° 33.0' N 10° 17.8' E	Fl.(2)R. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	23 7	6	Iron column, red and white bands; 14.	Visible 231°-095°.
7920 <i>E 1380</i>	-Molo Mediceo, head.	43° 32.9' N 10° 17.8' E	Fl.(2)G. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	25 8	5	Green column on pedestal; 16.	Visible only within the harbor.
7924 <i>E 1374</i>	-Diga della Vegliaia, W. head.	43° 32.2' N 10° 17.2' E	Fl.G. period 3s fl. 1s, ec. 2s	59 18	7	Round green tower; 46.	Visible 330°-240°.
7928 <i>E 1380.2</i>	-Porticciolo San Jacopo.	43° 31.7' N 10° 18.3' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	26 8	3	Green pole; 13.	
7932 <i>E 1380.4</i>	-Porticciolo San Leopoldo.	43° 31.4' N 10° 18.5' E	Fl.G. period 8s fl. 1s, ec. 7s	26 8	4	Green pole; 16.	
7936 <i>E 1381</i>	-Antignano.	43° 29.8' N 10° 19.3' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	23 7	4	Green pole; 23.	
7940 <i>E 1382</i>	-Quercianella.	43° 27.7' N 10° 21.9' E	F.R.	23 7	3	Red mast; 16.	
CORSE (CORSICA) (F.)							
STRAIT OF BONIFACIO:							
7944 <i>E 0876</i>	-Cap Pertusato.	41° 22.0' N 9° 11.2' E	Fl.(2)W. period 10s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 7.4s	328 100	25	Square white tower, upper part black, white house; 56.	Visible 239°-113°.
7948 <i>E 0872</i>	-Ile Lavezzi.	41° 20.1' N 9° 15.5' E	Oc.(2)W.R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	89 27	W. 17 R. 14	Square tower and house red and white bands; 39.	Partially obscured 138°-218°. W. 243°-351°, R-243°. Reserve light range 10-7M.
7950 <i>E 0874.5</i>	-Ile Cavallo.	41° 21.7' N 9° 15.9' E	Iso.W.R.G. period 4s		W. 6 R. 4 G. 4		G. 328°-337°, W.-344°, R.-353°.
7952 <i>E 0874</i>	-Ecueil Lavezzi Rock.	41° 19.0' N 9° 15.3' E	Fl.(2)W. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	59 18	9	ISOLATED DANGER BRB, tower, topmark; 73.	
	-RACON		C(- • - •)				

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CORSE (CORSICA) (F.)							
7960 <i>E 0875</i>	-Perduto Rock.	41° 22.0' N 9° 19.0' E	Q.(3)W. period 10s	52 16	11	E. CARDINAL BYB, tower, topmark; 91.	
7964 <i>E 0878</i>	-Pointe de la Madonetta.	41° 23.1' N 9° 08.8' E	Iso.R. period 4s	92 28	7	Square red tower with gray corners and name in white; 39.	
-Bonifacio:							
7968 <i>E 0886</i>	--Pointe de l'Arenella.	41° 23.3' N 9° 09.1' E	Oc.(2)R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	30 9	5	Red round tower on gray base; 30.	
7976 <i>E 0882</i>	--Point Cacavento.	41° 23.3' N 9° 09.2' E	Fl.G. period 4s	19 6	5	White pyramid green lantern; 13.	
7980 <i>E 0888</i>	-Cap de Feno.	41° 23.5' N 9° 05.8' E	Dir.Fl.(4)W. period 15s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	69 21	21	White square tower, upper part black; 39.	Intensified 109°24'-111°24'. In line 110°25' with Cap Pertusato.
			Fl.(4)W.R. period 15s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	75 23	W. 7 R. 4		R. 150°-270°, W.-150°. Synchronized with directional light. Reserve light range 5/3M.
7984 <i>E 0890</i>	Les Moines.	41° 26.8' N 8° 54.0' E	Q.(6)+L.Fl.W. period 15s	89 27	9	S. CARDINAL YB, topmark; 112.	
7986 <i>E 0889</i>	Caldarello, jetty, head.	41° 28.5' N 9° 04.4' E	Dir.Q.W.R.G. period 1.2s		W. 7 R. 6 G. 6		G. 026°-035°, W.-037°30', R.- 046°, obsc.-026°.
7988 <i>E 0894</i>	Pointe Senetosa.	41° 33.5' N 8° 47.9' E	Fl.W.R. period 5s fl. 0.1s, ec. 4.9s	177 54	W. 20 R. 16	Two white towers, black top; 49.	R. 306°-328° except where obscured by Pointe Latoniccia, W.-306°.
GOLFE DE VALINCO:							
7992 <i>E 0896</i>	-Propriano, Rocher Longo.	41° 40.7' N 8° 53.9' E	Oc.(3)W.G. period 12s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	53 16	W. 15 G. 12	White tower, green top; 56.	W. 070°-097°, G.-137°, W.-002°, obscured elsewhere.
7996 <i>E 0898</i>	--Jetee Est.	41° 40.6' N 8° 54.1' E	Iso.G. period 4s	36 11	10	White column, top and base green; 23.	Obscured 094°-095° by Rocher Longo Lighthouse.
8000 <i>E 0899</i>	--W. breakwater, head.	41° 40.6' N 8° 54.2' E	Fl.(2)W. period 6s fl. 0.2s, ec. 1.4s fl. 0.2s, ec. 4.2s	6 2		Red structure; 3.	Unintensified 285°-045°.
8001 <i>E 0899.2</i>	--E. breakwater, head.	41° 40.7' N 8° 54.3' E	Fl.(3)G. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	16 5	6	White structure, top and base green; 10	Unintensified 285°-045°.
8004 <i>E 0900</i>	Cap de Muro.	41° 44.4' N 8° 39.7' E	Oc.W. period 4s lt. 3s, ec. 1s	187 57	9	White square tower, black top; 20.	Visible 276°-186°. F.R. shown from radio mast 5 miles ENE.
AJACCIO:							
8008 <i>E 0908</i>	-Citadelle.	41° 54.9' N 8° 44.5' E	Fl.(2)W.R. period 10s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 7.4s	62 19	W. 20 R. 16	White round tower, red top; 43.	R. 045°-057°, W. elsewhere.
8012 <i>E 0910</i>	--Jetee de la Citadelle.	41° 55.1' N 8° 44.7' E	Oc.R. period 4s lt. 3s, ec. 1s	43 13	8	White column, red top; 43.	

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CORSE (CORSICA) (F.)							
8016 <i>E 0911</i>	-Jetee des Capucins.	41° 55.3' N 8° 44.6' E	Fl.R.G. period 4s fl. 1s, ec. 3s	26 8	7	White column; 23.	R. 110°-271°30', G.-065°, obsc.-110°.
8020 <i>E 0913</i>	-Jetee de Margonajo.	41° 55.6' N 8° 44.6' E	Fl.(4)Vi. period 15s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	22 7	1	White column; 20.	Lights F.W. and F.R. occasionally shown on a pylon 1 mile E.
8021 <i>E 0912</i>	-Port des Cannes.	41° 55.8' N 8° 44.7' E	Fl.(2)R. period 6s fl. 0.2s, ec. 1.4s fl. 0.2s, ec. 4.2s	16 5	6	White tower, red top; 10.	
8024 <i>E 0914</i>	-Aspretto, outer jetty, head.	41° 55.3' N 8° 45.8' E	Q.R.G.	26 8	8	White column, green top; 16.	G. 035°-300°, R.-035°. Occasional.
8028 <i>E 0915</i>	--Inner jetty, head.	41° 55.3' N 8° 45.9' E	Fl.R. period 4s fl. 1s, ec. 3s	23 7	9	White column, red top; 10.	Occasional.
8032 <i>E 0906</i>	--L'Ecueil de la Citadelle.	41° 54.7' N 8° 44.5' E	Fl.(4)R. period 15s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	33 10	7	Red truncated tower; 43.	
8034 <i>E 0905</i>	-La Guardiola.	41° 54.2' N 8° 43.3' E	Fl.R. period 2.5s	20 6	2	Red tower; 33.	
8036 <i>E 0902</i>	Iles Sanguinaires.	41° 52.7' N 8° 35.7' E	Fl.(3)W. period 15s fl. 0.1s, ec. 3.9s fl. 0.1s, ec. 3.9s fl. 0.1s, ec. 6.9s	321 98	24	White square tower, black top, on white building; 59.	
8038	Cargese, S. jetty, head.	42° 07.9' N 8° 35.9' E	Oc.(3)W.R. period 12s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	23 7	W. R. 6	9 White tower, red top; 10.	R. 025°-325°, W.-025°.
8038.5	-N. jetty, head.	42° 07.9' N 8° 35.8' E	Fl.(3)G. period 12s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 6.5s	13 4	2	White pole, green top.	
8040 <i>E 0916</i>	Ile Gargalu, NW. point.	42° 22.3' N 8° 32.0' E	Fl.W.R. period 4s fl. 1s, ec. 3s	121 37	W. R. 6	8 Black and white column; 23.	W. 348-214°, R.-348°. Obscured 221°-345°.
8044 <i>E 0918</i>	Pointe Revellata.	42° 34.9' N 8° 43.6' E	Fl.(2)W. period 10s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 7.4s	318 97	21	Square white tower, upper part black; 62.	Visible 060°-000°. Reserve light Fl.(2)W. 10s.
8048 <i>E 0919</i>	-Cala Revellata.	42° 34.8' N 8° 43.6' E	Fl.G. period 4s fl. 1s, ec. 3s	16 5	6	White and green turret at research station; 13.	
8052 <i>E 0920</i>	Calvi, foot of citadel.	42° 34.1' N 8° 45.8' E	Oc.(2)G. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	98 30	8	Pylon on green and white house, name in green; 20.	Visible 095°-005°.
8056 <i>E 0922</i>	-Pier, head.	42° 33.9' N 8° 45.8' E	Q.G.	33 10	8	White column, dark green top; 33.	
8060 <i>E 0923</i>	-Breakwater, head.	42° 33.9' N 8° 45.7' E	Fl.R. period 4s	19 6	7	White structure, red top; 13.	
8064 <i>E 0924</i>	Sant-Ambrogio.	42° 36.1' N 8° 49.8' E	Fl.G. period 2s fl. 0.4s, ec. 1.6s	23 7	2	White post, green top; 20.	A Fl.R. light is shown at head of SW. jetty.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CORSE (CORSICA) (F.)							
8068 <i>E 0926</i>	Ile-Rousse-La Pietra.	42° 38.6' N 8° 56.0' E	Fl.(3)W.G. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	209 64	W. 15 G. 12	White square tower, green top, white gallery; 43.	G. shore-079°, W.-234°, G.- shore.
8072 <i>E 0928</i>	-Shelter wall of jetty, head.	42° 38.4' N 8° 56.4' E	Iso.G. period 4s	39 12	5	White masonry tower, green top; 13.	Obscured 111°-143°.
GOLFE DE SAINT-FLORENT:							
8076 <i>E 0930</i>	-Punta Mortella.	42° 43.0' N 9° 15.4' E	Oc.G. period 4s lt. 3s, ec. 1s	140 43	8	Square white tower, green top; 46.	
8080 <i>E 0935</i>	-Pointe Vecchiaia.	42° 42.9' N 9° 19.5' E	Fl.(3)W.R. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	115 35	W. 10 R. 7	White tower, red top; 16.	W. 035°-174°, R.-035°.
8084 <i>E 0932</i>	-Cap Fornali.	42° 41.3' N 9° 16.9' E	Fl.(2)G. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	46 14	6	Square white tower, green edges and top; 36.	
8088 <i>E 0934</i>	-Tourelle Tignoso.	42° 40.9' N 9° 17.7' E	Fl.R. period 2s fl. 0.4s, ec. 1.6s	19 6	2	Red tower; 30.	
8092 <i>E 0933</i>	-Saint Florent.	42° 40.8' N 9° 17.9' E	Oc.(2)W.R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	20 6	W. 9 R. 6	White truncated column, red top; 16.	R. 116°-227°, W.-116°.
8096 <i>E 0933.2</i>	--S. jetty, head.	42° 40.7' N 9° 18.0' E	Fl.G. period 2s fl. 0.4s, ec. 1.6s	13 4	2	White structure, green top; 10.	
8100 <i>E 0852</i>	Cap Corse.	43° 01.6' N 9° 24.4' E	Fl.W. period 5s fl. 0.1s, ec. 4.9s	278 85	28	White tower, black top; 85.	Visible 057°-314°. Signal station.
8104 <i>E 0854</i>	Macinaggio.	42° 57.6' N 9° 27.4' E	Oc.(2)W.R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	26 8	W. 12 R. 9	White and red tower; 26.	R. 120°-218°, W.-331°, R.-360°, R. (unint.)- 120°.
8108 <i>E 0855</i>	Capo Sagro.	42° 47.8' N 9° 29.5' E	Fl.(3)W. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s		10	White tower, green top; 13.	
8110 <i>E 0862</i>	Toga.	42° 42.6' N 9° 27.5' E	Q.R.	33 10	4	White tower, red top; 20.	
8110.5 <i>E 0862.6</i>	-N. breakwater, head.	42° 42.6' N 9° 27.4' E	Q.G.		2	White masonry tower; 13.	
BASTIA:							
8112 <i>E 0856</i>	-Jetee du Dragon, N. head.	42° 41.6' N 9° 27.3' E	Fl.(4)W.R. period 12s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	52 16	W. 14 R. 11	Gray tower, red lantern; 43.	W. (unint.) 040°-130°, W.- 136°, W. (unint.) 193°, W.- 328°, R.-342°, W.-040°. Reserve light R. 328°-342°, W.- 328°.
8116 <i>E 0861</i>	-Mole, head.	42° 42.0' N 9° 27.4' E	Q.R.	6 2	5	White column, red top; 3.	Visible 153°-026°.
8120 <i>E 0858</i>	-Genois Mole, head.	42° 41.6' N 9° 27.4' E	Oc.(2)G. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	43 13	8	Gray tower, green top; 29.	Unintensified 045°-135°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CORSE (CORSICA) (F.)							
8124 <i>E 0860</i>	-Jetee St. Nicles.	42° 41.9' N 9° 27.3' E	Fl.G. period 4s fl. 1s, ec. 3s	29 9	11	White tower, green band and top; 16.	
8132 <i>E 0863</i>	Campoloro.	42° 20.5' N 9° 32.5' E	Oc.(2)W.R. period 6s lt. 3s, ec. 1s fl. 1s, ec. 1s	23 7	W. R. 5	White support, red top; 16.	W. 184°-342°, R.-184°.
8136 <i>E 0864</i>	Ruisseau d'Alistro.	42° 15.6' N 9° 32.5' E	Fl.(2)W. period 10s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 7.4s	305 93	22	Gray octagonal tower, black top, red dwelling; 89.	
8137 <i>E 0865</i>	Solenzara.	41° 51.4' N 9° 24.3' E	Iso.G. period 4s		3		
8138 <i>E 0865.2</i>	-Quay.	41° 51.5' N 9° 24.3' E	Oc.(2)R. period 6s		3		
GOLFE DE PORTO VECCHIO:							
8148 <i>E 0866</i>	-Pointe de Chiappa.	41° 35.7' N 9° 22.0' E	Fl.(3+1)W. period 15s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 4.9s fl. 0.1s, ec. 4.9s	213 65	23	White square tower, red top; 69.	Visible 198°-027°.
8152 <i>E 0866.4</i>	-Tourelle Pecorella.	41° 36.7' N 9° 22.3' E	Fl.(3)G. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	39 12	6	White tower, green top; 46.	
8156 <i>E 0867</i>	-Pointe St. Cyprien.	41° 37.0' N 9° 21.4' E	Fl.W.G. period 4s fl. 1s, ec. 3s	85 26	W. G. 8	White square tower, black cupola; 43.	W. 220°-281°, G.-299°, W.-072°, G.-084°, obsc.-220°.
8160 <i>E 0869</i>	-Pointe Sud de Pozzoli.	41° 36.6' N 9° 17.5' E	Oc.(2)W.R.G. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	33 10	W. R. 13 G. 13	Truncated white tower, black top; 16.	G. 258°42'-271°42' W.-275°12', R.-288°12', obsc.-258°42'.
8164 <i>E 0870.3</i>	-La Ciocca, tower.	41° 35.4' N 9° 17.5' E	Fl.R. period 2s fl. 0.4s, ec. 1.6s	10 3	2	Red truncated tower; 16.	
8168 <i>E 0870</i>	-Porto Vecchio.	41° 35.2' N 9° 17.5' E	Iso.W.R.G. period 4s	29 9	W. R. 10 G. 10	White pylon, red top on NW. angle of hangar.	G. 208°30'-223°30', W.-225°30', R.-shore.
8172 <i>E 0870.6</i>	-S. jetty.	41° 35.4' N 9° 17.2' E	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	16 5	6	White tower, red top; 13.	Visible 212°-302°.
8176 <i>E 0870.8</i>	-N. jetty.	41° 35.5' N 9° 17.3' E	Fl.G. period 4s fl. 1s, ec. 3s	13 4	5	White tower, green top; 7.	Visible 200°-290°.
8180 <i>E 0871.5</i>	<i>Iles Cerbicales La Vacca, "2"</i> Buoy.	41° 32.7' N 9° 24.0' E	Q.(3)W. period 10s			E. CARDINAL BYB, pillar, topmark.	Radar reflector.
SARDEGNA (SARDINIA) (I.)							
STRAIT OF BONIFACIO:							
8188 <i>E 0942</i>	-Isola Santa Maria.	41° 17.4' N 9° 23.1' E	Fl.(4)W. period 20s fl. 1s, ec. 3s fl. 1s, ec. 3s fl. 1s, ec. 3s fl. 1s, ec. 7s	56 17	10	White two-story dwelling; 39.	Visible 173°-016°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SARDEGNA (SARDINIA) (I.)							
8192 <i>E 0946</i>	-Isola Corcelli.	41° 18.1' N 9° 24.1' E	Fl.(2)W. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	72 22	11	Black tower, red band; 39.	
8196 <i>E 0940</i>	- Isola Razzoli , SE. side of strait.	41° 18.4' N 9° 20.4' E	Fl.W.R. period 2.5s fl. 0.1s, ec. 2.4s	253 77	W. 19 R. 15	Conical truncated stone tower; 39.	W. 022°-092°, R.-137°, W.-237°, R.-320°.
	-RACON		M(—) period 30s		6		
8200 <i>E 0936</i>	-Longonsardo (Santa Teresa de Gallura).	41° 14.6' N 9° 12.0' E	Fl.W.R. period 3s fl. 1s, ec. 2s	37 11	W. 10 R. 8	White hut; 26.	R. 030°-164°, W.-184°, R.-210°.
8204 <i>E 0937</i>	-Entrance Range, front.	41° 14.2' N 9° 11.7' E	Oc.R. period 4s lt. 3s, ec. 1s	39 12	3	Green and white pile, white rectangular daymark, black stripe; 33.	Visible 181°30'-211°30'.
			F.G.	20 6	3		
(For other lights in Bonifacio Strait, see Cap Pertusato).							
8204.1 <i>E 0937.1</i>	--Rear, 1280 meters 196°30' from front.	41° 13.7' N 9° 11.5' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	148 45	7	White pile, white rectangular daymark, black stripe; 16.	Visible 151°30'-241°30'.
8208 <i>E 0938</i>	- Capo Testa .	41° 14.6' N 9° 08.7' E	Fl.(3)W. period 12s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 5s	220 67	17	White tower, two galleries; 79.	Visible 017°-256°. Reserve light range 11M.
8212 <i>E 1130</i>	Isola Asinara .	41° 07.2' N 8° 19.1' E	Fl.(4)W. period 20s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 10s	262 80	16	White round tower, two galleries, on dwelling; 115.	Reserve light range 13M.
GOLFO DELL'ASINARA:							
-Porto Torres:							
8216 <i>E 1138</i>	-- Porto Torres .	40° 50.1' N 8° 23.9' E	L.FI.(2)W. period 10s fl. 2s, ec. 2s fl. 2s, ec. 4s	147 45	16	Tower on two-story white house; 66.	Reserve light range 12M.
8220 <i>E 1140</i>	--E. breakwater, head.	40° 50.7' N 8° 24.0' E	L.FI.R. period 6s fl. 2s, ec. 4s	36 11	8	Red column on pedestal; 20.	F.R. and F.G. light is shown at entrance to basin near root of breakwater.
8224 <i>E 1139</i>	--W. breakwater, head.	40° 50.9' N 8° 24.0' E	L.FI.G. period 6s fl. 2s, ec. 4s	37 11	8	Green column on pedestal; 30.	Radar reflector.
	--RACON		P(•---•) period 30s		6		
8232 <i>E 1141</i>	--Pontile del Faro.	40° 50.4' N 8° 24.0' E	F.R., F.G. (vert.)	23 7 19 6	3	Red and green bands; 16.	2 F.G. (vert.) marks head of W. mole.
8236 <i>E 1136.8</i>	--Pontile de Levante.	40° 50.9' N 8° 22.8' E	Fl.(3)R. period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	33 10	4	Red post; 23.	
8244 <i>E 1136.32</i>	---E. head.	40° 51.0' N 8° 23.1' E	Fl.(3)G. period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	31 9	4	Green post; 23.	

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SARDEGNA (SARDINIA) (I.)							
8248 <i>E 1136.6</i>	-Pier No. "1", S.I.R. terminal.	40° 50.9' N 8° 22.4' E	F.G., F.R. (vert.)	23 7 20 6	3	Red mast, green bands; 16.	
8249 <i>E 1136.4</i>	--W. Range, front.	40° 50.2' N 8° 22.3' E	Iso.G. period 2s F.G.	89 27 79 24	2	Metal mast, white rectangular daymark, black stripe; 98	Visible 135°-225°.
8249.1 <i>E 1136.41</i>	---Rear, 120 meters 180° from front.	40° 50.1' N 8° 22.3' E	F.G., Oc.G. period 4s lt. 3s, ec. 1s	115 35 102 31	2	Metal mast, black rectangular daymark and white stripe; 92.	Visible 135°-225°.
8250 <i>E 1136.5</i>	--East Range, front.	40° 50.2' N 8° 20.5' E	Iso.R., F.R. period 2s	52 16 43 13	2	Metal framework tower, white square daymark and black stripe; 56.	Visible 135°-225°
8250.1 <i>E 1136.51</i>	---Rear, 120 meters 180° from front.	40° 50.1' N 8° 22.5' E	F.R., Oc.R. period 4s lt. 3s, ec. 1s	75 23 66 20	2	Metal framework tower, black square daymark and white stripe; 49.	Visible 135°-225°.
8252 <i>E 1136.55</i>	-Pier No. "2", S.I.R. Terminal.	40° 50.8' N 8° 21.4' E	2 F.G. (vert.)	33 10	3	Green mast; 16.	
8262 <i>E 1135</i>	-Fiumo Santo Power Plant.	40° 51.5' N 8° 18.3' E	Fl.Y. period 3s fl. 0.5s, ec. 2.5s	20 6	3	Yellow round tower; 20.	Marks watering place.
8264 <i>E 1134</i>	-Stintino.	40° 56.2' N 8° 13.8' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	19 6	3	Green truncated beacon; 16.	
8264.5 <i>E 1134.4</i>	-Mole, head.	40° 56.2' N 8° 13.8' E	Fl.R. period 4s fl. 1s, ec. 3s	20 6	4	Red mast.	
8265 <i>E 1133.5</i>	-Punta Salippi.	40° 59.2' N 8° 12.7' E	Fl.W.R.G. period 3s fl. 1s, ec. 2s	20 6	W. 5 R. 4 G. 4	White pillar, black stripes; 16.	G. 293°18'-297°, W.-305°, R.-308°42'.
8266 <i>E 1133</i>	--Passaggio dei Fornelli.	40° 59.2' N 8° 13.5' E	Fl.W.R.G. period 3s fl. 1s, ec. 2s	20 6	W. 6 R. 4 G. 4	White pillar, black stripes; 13.	G. 065°12'-068°12', W.-076°12', R.-079°12'.
8268 <i>E 1132</i>	-Rada della Reale.	41° 03.2' N 8° 17.7' E	Fl.W.R. period 5s fl. 0.5s, ec. 4.5s	36 11	W. 7 R. 5	White round tower; 36.	R. 297°-320°, W.-297°.
PORTO CONTE:							
8276 <i>E 1124</i>	-Capo Caccia.	40° 33.6' N 8° 09.8' E	Fl.W. period 5s fl. 0.2s, ec. 4.8s	610 186	24	White tower on three-story dwelling; 79.	Reserve light range 18M.
8280 <i>E 1126</i>	-Porto Conte.	40° 35.6' N 8° 12.3' E	Fl.W. period 3s fl. 1s, ec. 2s	57 17	10	White truncated conical tower; 26.	
8284 <i>E 1122</i>	Isolotto della Maddalena.	40° 34.3' N 8° 18.1' E	Fl.R. period 5s fl. 1s, ec. 4s	33 10	4	White truncated tower, red bands; 20.	
8285 <i>E 1122.6</i>	--Inner breakwater, head.	40° 35.4' N 8° 17.4' E	F.G.	23 7	3	Green mast; 16.	Private light.
PORTO ALGHERO:							
8286 <i>E 1117</i>	-S. mole, head.	40° 33.9' N 8° 18.3' E	Fl.G. period 3s fl. 1s, ec. 2s	33 10	8	Green column; 20.	

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SARDEGNA (SARDINIA) (I.)							
8288 <i>E 1117.2</i>	--Molo di Sottoflutto, head.	40° 32.9' N 8° 18.5' E	Fl.R. period 3s fl. 1s, ec. 2s	33 10	8	Red column; 20.	
8290 <i>E 1119.2</i>	-Secca delle Murge.	40° 33.7' N 8° 18.5' E	Fl.G. period 4s fl. 0.5s, ec. 3.5s	20 6	5	STARBOARD (A) G, beacon, topmark; 13.	Radar reflector.
8292 <i>E 1118</i>	-Pier, head.	40° 33.6' N 8° 18.7' E	2 F.G. (vert.)	23 7	3	Green post; 20.	
8296 <i>E 1119</i>	-N. breakwater, head.	40° 33.7' N 8° 18.8' E	2 F.R. (vert.)	23 7	3	Red post; 20.	
8300 <i>E 1120</i>	Alghero AVIATION LIGHT.	40° 38.0' N 8° 17.0' E	Al.Fl.W.G.				Occasional.
8308 <i>E 1116.4</i>	-E. side, mole, head.	40° 17.2' N 8° 28.6' E	F.G., F.R. (vert.)	26 8 20 6	3	Red mast, green top; 23.	
8309 <i>E 1116.5</i>	-Inner mole, head.	40° 17.1' N 8° 28.5' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	36 11	8	Red mast.	
8312 <i>E 1112</i>	Capo Mannu.	40° 02.1' N 8° 22.7' E	Fl.(3)W. period 15s fl. 1.5s, ec. 2s fl. 1.5s, ec. 2s fl. 1.5s, ec. 6.5s	195 59	11	White quadrangular tower on dwelling; 36.	Private light.
8316 <i>E 1111</i>	Isolotto di Mal di Ventre, highest point.	39° 59.5' N 8° 18.3' E	Fl.W.R. period 6s fl. 1s, ec. 5s	85 26	W. 11 R. 8	Round turret on white square sentry hut; 26.	R. 004°-020°, W.-004°.
8320 <i>E 1108</i>	- Capo San Marco.	39° 51.6' N 8° 26.1' E	Fl.(2)W. period 10s fl. 0.2s, ec. 2s fl. 0.2s, ec. 7.6s	187 57	22	Round tower, two galleries, on two-story dwelling; 49.	
			L.Fl.R. period 5s fl. 2s, ec. 3s	180 55	12	Same structure.	Visible 097°30'-102°30'.
8324 <i>E 1106</i>	-Torre Grande.	39° 54.4' N 8° 31.1' E	Fl.R. period 5s fl. 1s, ec. 4s	60 18	8	Round tower; 52.	
8328 <i>E 1107</i>	--Pier, head.	39° 53.8' N 8° 31.9' E	F.R., F.G. (vert.)	36 11 29 9	R. 3 G. 3	Red mast, black bands; 30.	
8332 <i>E 1107.2</i>	--Pontile Sipsa, head.	39° 53.4' N 8° 32.2' E	F.R., F.G. (vert.)	30 9 26 8	R. 3 G. 3	Green and red post; 20.	
8336 <i>E 1107.6</i>	--Pontile Perlite, head.	39° 53.5' N 8° 32.1' E	F.R., F.G. (vert.)	42 13 39 12	R. 3 G. 3	Red mast, black bands; 36.	
8344 <i>E 1105.2</i>	--Oristano.	39° 51.9' N 8° 32.6' E	L.Fl.R. period 5s fl. 2s, ec. 3s	33 10	7	Red metal pillar on pedestal; 26.	
8353 <i>E 1104.2</i>	-Mole, head.	39° 49.6' N 8° 33.1' E	Fl.Y. period 3s fl. 0.5s, ec. 2.5s	16 5	3		
8356 <i>E 1104</i>	-Capo Fresca.	39° 46.1' N 8° 27.4' E	Fl.W. period 6s fl. 1s, ec. 5s	218 66	11	White round tower on square base; 25.	
8358 <i>E 1103.24</i>	Buggerru.	39° 24.2' N 8° 23.9' E	Fl.R. period 3s fl. 1s, ec. 2s		4	Red support; 23.	Fl.G. 3s 4M marks W. mole.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SARDEGNA (SARDINIA) (I.)							
CANALE DI SAN PIETRO:							
8360 <i>E 1103</i>	-Isola Piana, N. extremity.	39° 11.7' N 8° 19.2' E	Fl.(2)W.R. period 8s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	59 18	7	White round tower; 26.	R. 209°-231°, W.-209°, F.G. 3M marks head of breakwater about 625 meters SE. Radar reflector.
8362 <i>E 1103.2</i>	-Secca Grande.	39° 12.8' N 8° 20.3' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	20 6	5	ISOLATED DANGER BRB, articulated beacon, topmark.	Radar reflector.
8363 <i>E 1099.2</i>	-Portoscuso.	39° 12.0' N 8° 22.8' E	2 F.R. (vert.)		4	Post.	
8364 <i>E 1099</i>	-Scolglio la Ghinghetta.	39° 12.0' N 8° 22.2' E	Fl.(2)W.R. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	39 12	W. 11 R. 8	Truncated tower, black and red bands; 33.	W. 116°-153°, R.-165°, W.-100°, R.-116°.
8370 <i>E 1100</i>	---No. "1".	39° 11.5' N 8° 22.4' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	16 5	4	STARBOARD (A) G, articulated beacon, topmark; 20.	Radar reflector.
8371 <i>E 1100.04</i>	---No. "2".	39° 11.6' N 8° 22.4' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	16 5	4	PORT (A) R, articulated beacon, topmark; 20.	Channel marked by lighted beacons. Radar reflector.
8374 <i>E 1100.5</i>	--Extension of Molo di Ponente.	39° 11.5' N 8° 23.1' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	20 6	3	PORT (A) R, beacon, topmark; 20.	Radar reflector.
8376 <i>E 1100.8</i>	---Elbow.	39° 11.7' N 8° 23.4' E	2 F.R. (vert.)	33 10	3	Red post; 23.	Visible 195°-063°.
8380 <i>E 1101</i>	--Nuovo Diga di Levante.	39° 11.6' N 8° 23.5' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	37 11	7	Green column on hut.	
-Carloforte:							
8388 <i>E 1093</i>	--Entrance Range, front, Duono.	39° 08.7' N 8° 18.4' E	F.R.	75 23	3	White bell tower; 72.	
8392 <i>E 1093.1</i>	---Rear, about 380 meters 273°27' from front.	39° 08.8' N 8° 18.1' E	F.R.	131 40	3	Black and white checkered tower; 16.	
8396 <i>E 1096</i>	--Molo della Sanita, head.	39° 08.7' N 8° 19.1' E	Fl.G. period 3s fl. 1s, ec. 2s	26 8	6	Green post; 20.	
8400 <i>E 1095</i>	--Molo Central, at head.	39° 08.7' N 8° 18.6' E	2 F.G. (vert.)	30 9 26 8	3	Green post; 20.	
8404 <i>E 1094.6</i>	--New pier.	39° 08.6' N 8° 18.5' E	F.R., F.G. (vert.)	23 7 16 5	3	Green and red post; 16.	
8408 <i>E 1094.4</i>	--Molo San Carlo, head.	39° 08.6' N 8° 18.5' E	2 F.R. (vert.)	26 8 20 6	3	Red post; 20.	
8412 <i>E 1094</i>	--Leading beacon Range, front.	39° 08.4' N 8° 18.6' E	F.R.	36 11	6	Gray building with N. corner in black and white bands; 26.	
8414 <i>E 1094.1</i>	---Rear, 1650 meters 241°55' from front.	39° 08.0' N 8° 17.6' E	Fl.R. period 3s fl. 1s, ec. 2s	246 75	9	White beacon; 13.	Visible 221°-251°.
8416 <i>E 1092</i>	--Molo San Vittorio (Molo S.), head.	39° 08.5' N 8° 19.0' E	Fl.R. period 3s fl. 1s, ec. 2s	24 7	8	Red post; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SARDEGNA (SARDINIA) (I.)							
8418 <i>E 1093.5</i>	-Secca dei Marmi Beacon.	39° 09.0' N 8° 20.0' E	FL.Y. period 3s	20 6	4	SPECIAL Y, articulated beacon, topmark.	Radar reflector.
8419 <i>E 1093.6</i>	-Approach beacon.	39° 08.6' N 8° 20.0' E	L.FI.W. period 10s fl. 2s, ec. 8s	20 6	6	SAFE WATER RW, articulated beacon, topmark.	Radar reflector.
8419.5 <i>E 1096.5</i>	-Fishing harbor, S. pier, head.	39° 08.8' N 8° 18.7' E	2 F.R. (vert.)	23 7	2	Red mast; 13.	Private light.
8419.75 <i>E 1096.6</i>	-- N. pier, head.	39° 08.9' N 8° 18.7' E	2 F.G. (vert.)	23 7	2	Green mast; 13.	Private light.
8420 <i>E 1098</i>	-Calasetta, N. side of Isola di Sant' Antioco, head of outer mole.	39° 06.8' N 8° 22.4' E	2 F.G. (vert.)	20 6 16 5	3	Green mast; 16.	F.R. on silo.
8424 <i>E 1098.4</i>	-- Inner mole, head.	39° 06.8' N 8° 22.5' E	2 F.R. (vert.)	19 6 16 5	3	Red mast; 16.	
8428 <i>E 1086</i>	Scoglio Mangiabarche.	39° 04.6' N 8° 20.7' E	FI.W. period 6s fl. 1s, ec. 5s	40 12	11	White tower; 33.	
8432 <i>E 1090</i>	Capo Sandalo.	39° 08.8' N 8° 13.5' E	FI.(4)W. period 20s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 12.3s	438 134	24	White round tower on two story stone dwelling; 98.	Aeromarine light. Visible 322°-191° and in Canale di Pietro 311°-322°. Reserve light range 18M. Radiobeacon.
GOLFO DI PALMAS:							
8436 <i>E 1074</i>	-Isolotta Il Toro.	38° 51.6' N 8° 24.6' E	FI.(2)W.R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	387 118	W. 11 R. 8	Round tower on white hut.	W. 205°-199°, R.-205°.
8440 <i>E 1080</i>	-Saint Antioco Ponti.	39° 03.5' N 8° 28.4' E	FI.W. period 5s fl. 1s, ec. 4s	75 23	15	Square tower on two-story dwelling, black and white bands; 72.	Reserve light range 11M.
8444 <i>E 1084</i>	--Banchina del Carbone, SE. head.	39° 03.3' N 8° 28.3' E	2 F.G.R. (vert.)	28 9 23 7	3	Gray pole; 23.	FI.G. and FI.R. articulated lights mark entrance channel.
PORTO DI TEULADA							
8445 <i>E 1073</i>	-Outer mole, head.	38° 55.6' N 8° 43.3' E	FI.R. period 4s fl. 1s, ec. 3s	26 8	6	Red post; 7.	
8446 <i>E 1073.1</i>	-Inner mole, head.	38° 55.6' N 8° 43.2' E	FI.G. period 4s fl. 1s, ec. 3s	26 8	6	Green post; 16.	
8448 <i>E 1072</i>	Capo Spartivento.	38° 52.6' N 8° 50.7' E	FI.(3)W. period 15s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 8s	265 81	18	Red tower on two-story dwelling; 62.	Visible 240°-085°, and 093°- 094°.
8449 <i>E 1071.2</i>	-Cala Verde, right mole, head.	38° 59.1' N 9° 00.2' E	FI.G. period 5s fl. 0.5s, ec. 4.5s	26 8	3	Green mast; 16.	Tourist port.
8449.1 <i>E 1071</i>	--Left mole, head.	38° 58.7' N 8° 59.9' E	FI.R. period 5s fl. 0.5s, ec. 4.5s	26 8	3	Red mast; 16.	Tourist port.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SARDEGNA (SARDINIA) (I.)							
8452 <i>E 1070</i>	Capo di Pula.	38° 59.1' N 9° 00.9' E	Fl.(4)W. period 15s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 8s	157 48	11	White round masonry tower; 52.	
GOLFO DI CAGLIARI:							
-Sarroch:							
8456 <i>E 1067</i>	--Oil Terminal Platform.	39° 05.2' N 9° 03.1' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	89 27	6	Red platform on column.	Approach channel marked by articulated beacons.
8464 <i>E 1066.7</i>	--Pontile SARAS, Chimica, No. "2" head. Approach Range, front.	39° 05.9' N 9° 01.7' E	2 Iso.R. (vert.) period 2s	36 11	3	Pole, white and red striped triangular board, point up; 16.	2 F.G. (vert.) light is shown at head of inner spur.
8468 <i>E 1066.71</i>	--Pontile SARAS, No. "2", rear, about 1240 meters 291° from front.	39° 06.1' N 9° 00.9' E	2 Oc.R. (vert.) period 4s lt. 3s, ec. 1s	92 28 89 27	3	Pole, white and red striped triangular board, point down; 33.	Visible 287°-295°.
8476 <i>E 1066.24</i>	--Pontile Rumianca Sud, head.	39° 09.3' N 9° 02.9' E	F.R., F.G. (vert.)	29 9 26 8	3	Red and green banded pole; 10.	
8480 <i>E 1066.26</i>	--Pontile Rumianca Sud, 240 meters 306° from head.	39° 09.4' N 9° 02.7' E	Q.W.	29 9	3	White mast; 10.	
8484 <i>E 1066.28</i>	--Pontile Rumianca Sud, 960 meters 306° from head.	39° 09.6' N 9° 02.4' E	Iso.R.G. period 2s	29 9	3	Green and red banded pole; 10.	G. 126°-306°, R.-126°.
8488 <i>E 1066</i>	--About 160 meters 000° from Pontile Rumianca Sud Root.	39° 09.9' N 9° 02.2' E	Oc.G. period 6s lt. 5s, ec. 1s	70 21	4	Green pole; 49.	Visible 126°-306°.
8492 <i>E 1066.2</i>	--About 206 meters 247° from Pontile Rumianca Sud Root.	39° 09.8' N 9° 02.0' E	Oc.R. period 4s lt. 3s, ec. 1s	70 21	4	Red mast; 49.	Visible 306°-126°.
-Cagliari:							
8500 <i>E 1056.2</i>	--W. breakwater, head.	39° 12.1' N 9° 06.6' E	Fl.R. period 3s fl. 1s, ec. 2s	43 13	9	White tower, red bands; 36.	Visible 120°-060°.
8501 <i>E 1056</i>	---Elbow.	39° 12.2' N 9° 06.6' E	F.R.	23 7	4	Red post.	Visible 110°-330°.
8502 <i>E 1057</i>	---E. breakwater, head.	39° 11.7' N 9° 06.5' E	Fl.G. period 3s fl. 1s, ec. 2s	43 13	9	White tower, green band; 36.	
---RACON							
			C(---•---) period 30s		6		
8503 <i>E 1057.4</i>	--Approach.	39° 11.0' N 9° 06.6' E	L.Fl.W. period 10s fl. 2s, ec. 8s		7	SAFE WATER RW, beacon, topmark.	
8503.2 <i>E 1065.62</i>	--Molo Settentrionale, head.	39° 11.7' N 9° 05.8' E	Fl.(2)G. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s		5	Green column.	
8503.25 <i>E 1065.61</i>	--Molo Meridionale, head.	39° 11.5' N 9° 05.6' E	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s		5	Red column.	
8503.4 <i>E 1065.625</i>	--Entrance, NE. side.	39° 11.7' N 9° 05.7' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	16 5	4	STARBOARD (A) G, mast, topmark.	Obscured 183°-268°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SARDEGNA (SARDINIA) (I.)							
8503.45 <i>E 1065.615</i>	---SW. side.	39° 11.6' N 9° 05.6' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	16 5	4	PORT (A) R, mast, topmark.	Obscured 006°-101°.
8503.6 <i>E 1065.64</i>	--Dock approach, NE. side.	39° 12.2' N 9° 05.2' E	Fl.(2)G. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	16 5	4	STARBOARD (A) G, mast, topmark.	
8503.65 <i>E 1065.63</i>	---SW. side.	39° 12.1' N 9° 05.1' E	Fl.(2)R. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	16 5	4	PORT (A) R, mast, topmark.	
8503.8 <i>E 1065.68</i>	--Dock entrance, SE. side.	39° 12.5' N 9° 04.8' E	2 F.G. (vert.)		3	Green post.	
8503.85 <i>E 1065.67</i>	---NW. side.	39° 12.5' N 9° 04.7' E	2 F.R. (vert.)		3	Red post.	
8503.9 <i>E 1065.9</i>	--Basin.	39° 13.3' N 9° 03.6' E	Fl.W. period 3s fl. 1s, ec. 2s		6	White post.	
8504 <i>E 1062</i>	--Sabaudo Mole, head.	39° 12.4' N 9° 06.5' E	F.R.	20 6	3	Red post; 16.	
8508 <i>E 1064</i>	--Molo della Capitaneria, NW. corner.	39° 12.0' N 9° 07.0' E	2 F.G. (vert.)	23 7 20 6	3	Green mast; 16.	
8512 <i>E 1063</i>	--Pontile della Dogana, SE. corner.	39° 12.6' N 9° 06.8' E	2 F.R. (vert.)	23 7 20 6	3	Red mast; 16.	
8516 <i>E 1059.2</i>	--Molo Su Siccu, NW. arm.	39° 12.2' N 9° 07.3' E	F.G.	19 6	3	Green pole; 16.	
8520 <i>E 1059</i>	---SE. arm.	39° 12.2' N 9° 07.4' E	F.R.	19 6	3	Red mast; 16.	
8524 <i>E 1058</i>	--Pontile Sant Elmo, head.	39° 12.1' N 9° 07.5' E	Fl.Y. period 5s fl. 1s, ec. 4s	20 6	4	SPECIAL Y, beacon, topmark.	
8528 <i>E 1065</i>	--Elmas AVIATION LIGHT.	39° 14.6' N 9° 04.0' E	Al.Fl.W.G.				Occasional.
8532 <i>E 1054</i>	-Capo Sant' Elia.	39° 11.0' N 9° 08.9' E	Fl.(2)W. period 10s fl. 0.2s, ec. 3.1s fl. 0.2s, ec. 6.5s	230 70	21	White round tower, black bands, attached to two-story dwelling; 69.	Reserve light range 18M.
8536 <i>E 1053</i>	Marina Piccola del Poetto, breakwater, head.	39° 11.6' N 9° 09.8' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	19 6	1	Red mast; 13.	
8540 <i>E 1053.2</i>	-E. side of entrance, pier, head.	39° 11.6' N 9° 09.9' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	19 6	1	Green mast; 16.	
8544 <i>E 1042.1</i>	Baia dei Carbonara.	39° 07.9' N 9° 29.9' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	46 14	6	White skeleton tower on hut; 13.	Visible 009°-058°.
8548 <i>E 1043</i>	Capo Carbonara.	39° 06.2' N 9° 30.8' E	Fl.W. period 7.5s fl. 0.3s, ec. 7.2s	394 120	23	White tower; 16.	Visible 217°-109°. Reserve light range 18M.
8550 <i>E 1049</i>	Seccadi San Caterina beacon.	39° 05.0' N 9° 29.7' E	Q.(9)W. period 15s	16 5	5	W. CARDINAL YBY, articulated beacon, topmark.	Radar reflector.
8552 <i>E 1048</i>	Isola dei Cavoli.	39° 05.3' N 9° 32.1' E	Fl.(2)W.R. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	242 74	W. 11 R. 8	Round tower attached to three- story building, black bands; 123.	W. 162°-073°, R.-093°, W.-128°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SARDEGNA (SARDINIA) (I.)							
8556 <i>E 1044</i>	Secca dei Berni, near Porto Giunco.	39° 06.8' N 9° 33.2' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	30 9	4	ISOLATED DANGER BRB, tower, topmark; 26.	
8560 <i>E 1042</i>	Capo Ferrato.	39° 17.9' N 9° 38.0' E	Fl.(3)W. period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	167 51	11	White tower on white dwelling; 36.	
8564 <i>E 1032</i>	Capo Bellavista.	39° 55.8' N 9° 42.8' E	Fl.(2)W. period 10s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 7.3s	541 165	26	White building, black bands; 62.	
			F.R.	476 145	6	Same building, post with red lantern.	Visible 164°-177°30'.
8568 <i>E 1034</i>	Arbatax, Mole di Levante, head.	39° 56.0' N 9° 42.0' E	F.R.	45 14	6	White truncated conical tower, red band on upper part; 20.	Visible 053°-330°.
8569 <i>E 1033</i>	-Mole, head.	39° 56.6' N 9° 42.2' E	Fl.R. period 5s fl. 1s, ec. 4s	30 9	9	White tower, red band; 26.	
8572 <i>E 1036</i>	-Molo di Ponente.	39° 56.4' N 9° 42.2' E	Fl.R.G. period 3s fl. 1s, ec. 2s	42 13	8	Green column on stone tower; 33.	R. 107°-147°, G.-107°.
8576 <i>E 1037</i>	--Arbatax tower.	39° 56.2' N 9° 42.4' E	2 F.G. (vert.)	72 22 69 21	3	Tower.	
8580 <i>E 1031</i>	Cala Gonone outer mole.	40° 17.0' N 9° 38.0' E	F.G.	23 7	3	Green post.	
8584 <i>E 1031.2</i>	-Inner mole.	40° 16.8' N 9° 38.4' E	F.R.	23 7	3	Red post.	
8588 <i>E 1030</i>	Capo Comino.	40° 32.0' N 9° 50.0' E	Fl.W. period 5s fl. 1s, ec. 4s	85 26	15	White quadrangular masonry tower; 66.	Obscured W. of 010°. Reserve light range 8M.
8592 <i>E 1029</i>	La Caletta, outer mole.	40° 36.0' N 9° 45.0' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	36 11	1	Post on truncated pyramidal base, white and black bands; 27.	Private light.
8596 <i>E 1029.2</i>	-Inner mole.	40° 36.6' N 9° 45.3' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	42 13	4	Post on truncated pyramidal base, white and red bands; 23.	Private light.
8598	Isolotto d'Ottiolu.	40° 44.2' N 9° 43.4' E	Q.(3)W. period 10s	16 5	5	E. CARDINAL BYB, beacon, topmark.	
GOLFO DI OLBIA:							
8600 <i>E 1028</i>	-Isola Tavolara.	40° 55.2' N 9° 44.2' E	L.Fl.(2)W. period 10s fl. 2s, ec. 2s fl. 2s, ec. 4s	236 72	15	White octagonal masonry structure; 23.	Obscured W. of 341°.
8604 <i>E 1028.4</i>	--Porticciolo, outer mole.	40° 55.2' N 9° 43.6' E	F.R.	23 7	3	White metal column, red bands; 15.	
8608 <i>E 1028.6</i>	---Inner mole.	40° 55.1' N 9° 43.6' E	F.G.	23 7	3	White metal column, black bands; 15.	
8612 <i>E 1013.8</i>	-Capo Ceraso Beacon.	40° 55.5' N 9° 38.0' E	Q.W.	21 6	5	N. CARDINAL BY, articulated beacon, topmark.	Radar reflector.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SARDEGNA (SARDINIA) (I.)							
-Olbia:							
8616 <i>E 1014</i>	--Isola della Bacon.	40° 55.2' N 9° 34.1' E	L.FI.W. period 5s fl. 2s, ec. 3s	80 24	15	White tower on two-story dwelling; 72.	Visible 180°-264°. Reserve light range 10M. Nautophone: Mo.(B) ev. 30s.
	--RACON		O(---)		6		
8624 <i>E 1019</i>	--Isola di Mezzo, on S. extremity.	40° 55.2' N 9° 30.7' E	FI.G. period 3s fl. 0.5s, ec. 2.5s	23 7	4	Green column; 18.	
8632 <i>E 1020</i>	--Pontile Benedetto Brin, S. corner, head.	40° 55.3' N 9° 30.6' E	F.G.	20 6	3	Green mast; 16.	
8640 <i>E 1025</i>	--Su Arrasolu Pier, E. corner of T-head.	40° 55.7' N 9° 30.9' E	F.R.	23 7	3	Red mast on white hut.	
8648 <i>E 1012.2</i>	--Golf of Aranci, head of mole, S. side.	40° 59.6' N 9° 37.3' E	2 F.R.G. (vert.)	36 11	3	Green and red pile; 26.	2 F.R. (vert.) shown from head of commerical quay. F.R. 3M and F.G. 3M mark head of fishing harbor breakwaters.
8649 <i>E 1012.4</i>	--Head of mole, near launching cradle.	40° 59.5' N 9° 37.4' E	Oc.G. period 3s lt. 2s, ec. 1s	36 11	3	Green pile; 26.	2 F.G. (vert.) shown on first launching cradle. Nautophone: Mo.(C).
8656 <i>E 1013.5</i>	--Bais Caddinas Marina, outer mole, head.	40° 59.0' N 9° 36.0' E	FI.G. period 2s fl. 0.5s, ec. 1.5s	16 5	2	Green pole; 16.	
8660 <i>E 1013.6</i>	--Inner mole, head.	40° 59.7' N 9° 36.2' E	FI.R. period 2s fl. 0.5s, ec. 1.5s		2		A F.R.G. light 1M is shown from T-mole head.
8664 <i>E 1010</i>	--Isolotto Figarolo, N. side of entrance to Golfo di Olbia.	40° 58.7' N 9° 38.6' E	FI.W. period 5s fl. 0.5s, ec. 4.5s	233 71	11	White masonry tower, black bands; 19.	Visible 225°-076°.
8665 <i>E 1009.65</i>	Punta Cala Volpe.	41° 02.3' N 9° 33.7' E	Q.W.	16 5	4	N. CARDINAL BY, beacon, topmark.	
8666 <i>E 1009.8</i>	Punta Canigione.	41° 01.5' N 9° 35.7' E	Q.W.	16 5	4	N. CARDINAL BY, beacon, topmark.	
8668 <i>E 1009.7</i>	Golfo di Marinella, jetty, head.	41° 00.3' N 9° 33.7' E	Iso.R. period 6s	19 6	3	Red mast; 13.	
8669 <i>E 1009.56</i>	Porto Rotondo, shelter mole.	41° 01.8' N 9° 32.6' E	FI.W.R. period 5s fl. 1s, ec. 4s	25 8	W. R. 7 5	White mast; 20.	R. 215°-240°, W.-215°.
8669.5 <i>E 1009.6</i>	--N. breakwater.	41° 01.7' N 9° 32.6' E	FI.R. period 2s fl. 0.5s, ec. 1.5s	16 5	3	Red mast; 11.	
8670 <i>E 1009.62</i>	--S. breakwater.	41° 01.6' N 9° 32.6' E	FI.G. period 2s fl. 0.5s, ec. 1.5s	16 5	3	Green mast; 11.	
8671 <i>E 1009.5</i>	--Portisco, Marina di Sa Petra, E. mole.	41° 02.3' N 9° 31.6' E	FI.G. period 4s	20 6	4	Black and white tower.	FI.R. 4s 6m 4M marks W. mole.
8672 <i>E 1009</i>	Punta Ligata.	41° 03.9' N 9° 32.3' E	FI.W. period 3s fl. 0.5s, ec. 2.5s	36 11	3	White conical tower; 10.	Shown June 1 to Sept. 30.
8676 <i>E 1009.2</i>	Cala di Volpe, N. cove, E. entrance point.	41° 04.9' N 9° 32.4' E	FI.G. period 4s fl. 0.5s, ec. 3.5s	19 6	1	White mast, black bands; 19.	
8680 <i>E 1009.4</i>	--W. entrance point.	41° 05.0' N 9° 32.1' E	FI.R. period 4s fl. 0.5s, ec. 3.5s	23 7	1	White mast, red bands; 19.	
8684 <i>E 1008.4</i>	Isole Poveri, on southernmost islet.	41° 05.2' N 9° 34.8' E	FI.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	33 10	4	ISOLATED DANGER BRB, tower; 10.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SARDEGNA (SARDINIA) (I.)							
8686 <i>E 1008.5</i>	--NE. shoal.	41° 05.7' N 9° 35.5' E	Q.(3)W. period 10s	20 6	4	E. CARDINAL BYB, beacon, topmark.	
8688 <i>E 1008.7</i>	Isolotti Mortoriotto, NE. islet.	41° 05.2' N 9° 37.1' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	20 6	4	ISOLATED DANGER BRB, post; 13.	
8692 <i>E 1005.4</i>	Porto Cervo, S. entrance point.	41° 08.2' N 9° 32.2' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	23 7	6	Red conical tower; 16.	
8696 <i>E 1005</i>	--N. entrance, point.	41° 08.2' N 9° 32.2' E	Fl.G. period 4s fl. 0.5s, ec. 3.5s	23 7	6	Green conical tower; 16.	
8700 <i>E 1006</i>	--Head of bay, range, front.	41° 08.0' N 9° 31.3' E	Iso.R. period 2s	89 27	3	Quadrangular white tower with black median stripe on both faces, surmounted by white cement posts; 26.	Visible 247°24'-252°24'.
8704 <i>E 1006.1</i>	--Rear, 270 meters 252°22' from front.	41° 07.9' N 9° 31.2' E	Oc.R. period 4s lt. 3s, ec. 1s	154 47	3	Quadrangular white tower with black median stripe; 10.	Visible 247°24'-252°24'.
8708 <i>E 1007</i>	--Inner N. breakwater.	41° 08.1' N 9° 31.9' E	F.G.	23 7	3	Green mast; 16.	
8712 <i>E 1007.3</i>	--Inner reef, S.	41° 08.0' N 9° 32.0' E	F.R.	23 7	3	Red mast; 16.	
8716 <i>E 1008</i>	Isole di li Nibani, on N. islet.	41° 08.9' N 9° 34.0' E	Q.W.	68 21	4	N CARDINAL BY, tower, topmark; 10.	
8720 <i>E 1004</i>	Secche del Cervo.	41° 08.6' N 9° 32.7' E	Q.(3)W. period 10s	20 6	4	E. CARDINAL BYB, beacon, topmark; 7.	
8724 <i>E 1002</i>	Capo Ferro.	41° 09.3' N 9° 31.4' E	Fl.(3)W. period 15s fl. 0.3s, ec. 2.7s fl. 0.3s, ec. 2.7s fl. 0.3s, ec. 8.7s Oc.R. period 5s lt. 4s, ec. 1s	170 52 137 42	24 9	White round tower on two-story dwelling; 59. Visible 189°-203° over Secca delle Bisce and dei Monaci. Reserve light 5M.	Radiobeacon about 80 meters E.
8728 <i>E 1003</i>	--320 meters 053° from main light.	41° 09.4' N 9° 31.6' E	Fl.R. period 3s fl. 1s, ec. 2s	46 14	8	Truncated conical tower, red and white bands; 34.	
8732 <i>E 1000</i>	Isola delle Bisce, S. side.	41° 09.7' N 9° 31.5' E	Fl.G. period 3s fl. 1s, ec. 2s	38 12	8	White conical tower, green band; 31.	Visible 255°-110°.
8736 <i>E 0998</i>	Isolotti Monaci.	41° 13.0' N 9° 31.1' E	Fl.W.R. period 5s fl. 1s, ec. 4s	79 24	W. 11 R. 8	White truncated conical tower; 52.	R. 246°-268°, W.-317°, R.-357°, W.-246°.
8737 <i>E 0995.4</i>	Porticciolo di Poltu Quatu, E. breakwater.	41° 08.5' N 9° 29.7' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	25 8	4	Red pile; 13.	
8738 <i>E 0995.42</i>	--W. breakwater.	41° 08.5' N 9° 29.7' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	25 8	4	Green pile; 13.	
8740 <i>E 0994</i>	Secca di Tre Monti Beacon.	41° 09.4' N 9° 27.8' E	Fl.(2)W. period 8s	16 5	5	ISOLATED DANGER BRB, articulated beacon, topmark.	Radar reflector.
8742 <i>E 0995</i>	Porticciolo di Cannigione.	41° 07.0' N 9° 27.0' E	F.G.	23 7	3	Green post; 16.	
8744 <i>E 0996</i>	Isola Caprera, on Punta Rossa.	41° 10.1' N 9° 28.2' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	30 9	5	Mast next to green truncated pyramidal tower.	Visible 275°-110°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SARDEGNA (SARDINIA) (I.)							
8748 <i>E 0992</i>	Capo d'Orso, NE. extremity.	41° 10.6' N 9° 25.4' E	Fl.W. period 3s fl. 1s, ec. 2s	39 12	10	White tower; 33.	
LA MADDALENA:							
8752 <i>E 0991</i>	-Punta Villamarina, Isola S. Stefano.	41° 11.2' N 9° 24.6' E	Fl.G. period 4s fl. 1s, ec. 3s	46 14	4	Green metal column on pedestal; 19.	
8753 <i>E 0993</i>	-Cala Capra, N. mole, head.	41° 10.1' N 9° 25.3' E	F.G.	20 6	4	Green metal column on pedestal; 16.	
8756 <i>E 0966</i>	-Isola Chiesa, S. extremity, head of mole.	41° 12.6' N 9° 25.1' E	F.R.	23 7	3	Red mast on pedestal; 15.	
8760 <i>E 0960</i>	--La Maddalena Range, front.	41° 12.8' N 9° 25.1' E	F.G.	56 17	3	White column, black median stripe; 13.	
8761 <i>E 0960.1</i>	---Rear, 680 meters 066° from front.	41° 12.9' N 9° 25.3' E	F.G.	121 37	3	Flagpole, white wall, black median stripe; 26.	
8764 <i>E 0968</i>	--Beacon, 174 meters SW. of mole at S. extremity of island.	41° 12.5' N 9° 25.0' E	F.G.	19 6	3	Green post on stone base; 16.	
8768 <i>E 0957</i>	-Guardia Vecchia Range, front.	41° 12.8' N 9° 23.9' E	Iso.G. period 2s	164 50	8	White hut, black median stripe; 3.	Visible 008°18'-019°48' between Secche del Paulau and Roma.
8772 <i>E 0957.1</i>	--Rear, about 869 meters 014° from front.	41° 13.3' N 9° 24.0' E	Oc.G. period 4s lt. 3s, ec. 1s	492 150	8	White hut, black median stripe; 3.	Visible 008°18'-019°18'.
8776 <i>E 0962.4</i>	-Via G. Amendola, E. extremity.	41° 12.7' N 9° 24.5' E	2 F.R. (horiz.)	23 7	3	Red mast; 16.	
8780 <i>E 0962</i>	--W. extremity, E. side of Cala Gavetta entrance.	41° 12.7' N 9° 24.4' E	F.G.	23 7	3	Green mast; 20.	Private light.
8784 <i>E 0961</i>	--Mole, new head.	41° 12.6' N 9° 24.3' E	F.R.	20 6	3	Red mast; 16.	
8788 <i>E 0963</i>	-Cala Mangiavolpe, pier, head.	41° 12.8' N 9° 24.6' E	2 F.R.G. (vert.)	23 7 19 6	3	Metal red and green banded post; 16.	Private light.
8792 <i>E 0964</i>	-W. side of bay, breakwater, head.	41° 12.7' N 9° 24.7' E	2 F.R. (vert.)	16 5 13 4	3	Red mast; 15.	
8796 <i>E 0972</i>	-Hospital Wharf, head.	41° 12.8' N 9° 25.5' E	F.R.	23 7	3	Red mast; 20.	
8804 <i>E 0974</i>	-Cala Camiciotto, W. side of entrance, head of mole.	41° 12.8' N 9° 25.6' E	F.R.	23 7	3	Red mast; 16.	
8808 <i>E 0976</i>	-Cala Camicia, W. side of entrance.	41° 12.8' N 9° 26.0' E	2 F.R. (vert.)	23 7 21 6	3	Red mast; 19.	
8816 <i>E 0980</i>	-Cala Stagnali Range, front.	41° 11.9' N 9° 27.1' E	F.G.	30 9	3	White concrete post, black band.	
8820 <i>E 0980.1</i>	--Rear, about 87 meters 139° from front.	41° 11.9' N 9° 27.1' E	F.G.	46 14	3	White concrete post, black band.	
8824 <i>E 0952</i>	Secca di Mezzo Passo, off SE. end of Isola Maddalena.	41° 12.2' N 9° 22.8' E	Fl.(2)W. period 6s	23 7	5	ISOLATED DANGER BRB, topmark; 26.	
8828 <i>E 0958</i>	Secca del Palau.	41° 11.7' N 9° 23.2' E	V.Q.(6)+L.Fl.W. period 10s	26 8	5	S. CARDINAL YB, lamppost, topmark.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SARDEGNA (SARDINIA) (I.)							
8829 <i>E 0990</i>	-E. limit of shoal.	41° 11.9' N 9° 23.4' E	Fl.Y. period 5s fl. 0.5s, ec. 4.5s	10 3	4	SPECIAL Y, beacon, topmark.	
8832 <i>E 0988</i>	Punta Palau.	41° 11.2' N 9° 22.9' E	Fl.(2)G. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	49 15	4	White tower, green band; 33.	
8833 <i>E 0990</i>	-Palau, pier, head.	41° 10.9' N 9° 23.2' E	2 F.G.R. (vert.)	20 6	3	Red concrete mast, green bands; 16.	
				16 5			
8834 <i>E 0990.2</i>	-Beacon.	41° 10.9' N 9° 23.3' E	V.Q.(9)W. period 10s	10 3	4	W. CARDINAL YBY, topmark.	Radar reflector.
8835 <i>E 0990.6</i>	-Shelter mole.	41° 10.8' N 9° 23.2' E	F.G.	20 6	3	Green mast; 16.	
8835.5 <i>E 0990.4</i>	Marina, breakwater, head.	41° 10.8' N 9° 23.2' E	F.R.	20 6	3	Red mast; 16.	
8836 <i>E 0950</i>	Punta Coda Sardegna, N. coast of island.	41° 12.4' N 9° 21.8' E	Fl.W. period 5s fl. 1s, ec. 4s	115 35	11	White two-story dwelling; 42.	
8840 <i>E 0984</i>	Porto Massimo (Lungu), head of dike.	41° 15.0' N 9° 26.0' E	F.G.	16 5	3	Green mast; 14.	

Section 7

West Coast of Italy and Sicily

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ITALY-WEST COAST AND ADJACENT ISLANDS							
8848 <i>E 0951</i>	<i>Secca Corsara Beacon.</i>	41° 13.4' N 9° 20.2' E	Q.(6)+L.FI.W. period 15s	23 7	5	S. CARDINAL YB, articulated beacon, topmark.	Radar reflector.
8852 <i>E 1392</i>	-Punta Paratella, N. point of island.	43° 26.2' N 9° 54.2' E	L.FI.W. period 10s fl. 2s, ec. 8s	346 105	9	White column on pedestal; 16.	Signal station, on summit.
8856 <i>E 1394</i>	-Cala Dello Scalo, mole, head.	43° 25.7' N 9° 54.6' E	FI.R. period 3s fl. 0.3s, ec. 2.7s	26 8	2	Red lamppost; 13.	
8860 <i>E 1396</i>	-Punta Cala Scirocco, SE. point of island.	43° 25.2' N 9° 54.1' E	FI.(2)W. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	147 45	9	White column on pedestal; 16.	
ISOLA CAPRAIA:							
8864 <i>E 1400</i>	-Punta del Ferraione.	43° 03.1' N 9° 50.7' E	L.FI.W. period 6s fl. 2s, ec. 4s	98 30	15	White quadrangular tower and dwelling; 39.	
8868 <i>E 1402</i>	-Capraia, NE. mole, head.	43° 03.0' N 9° 51.0' E	FI.G. period 3s fl. 0.5s, ec. 2.5s	23 7	4	Green post; 19.	Visible 254°-210°.
8872 <i>E 1401</i>	--NE. mole, elbow.	43° 03.0' N 9° 51.0' E	FI.G. period 3s fl. 0.5s, ec. 2.5s	20 6	4	Green framework structure on white hut; 13.	Visible 195°-074°.
8876 <i>E 1403</i>	--Inner mole, head.	43° 02.7' N 9° 50.3' E	FI.R. period 3s fl. 0.5s, ec. 2.5s	23 7	4	Red column; 23.	
8880 <i>E 1404</i>	-Punta del Trattoio.	43° 01.4' N 9° 47.6' E	FI.W. period 8s fl. 1s, ec. 7s	492 150	9	White hut; 10.	
ISOLA D'ELBA:							
8884 <i>E 1444</i>	-Punta Polveraia.	42° 47.6' N 10° 06.7' E	L.FI.(3)W. period 15s fl. 2s, ec. 2s fl. 2s, ec. 2s fl. 2s, ec. 5s	170 52	16	Octagonal masonry tower, white dwelling; 33.	Obscured S. of 036°. Reserve light range 14M.
8888 <i>E 1408</i>	-Marciana Marina, mole, head.	42° 48.5' N 10° 11.7' E	FI.G. period 4s fl. 1s, ec. 3s	36 11	8	Green post; 18.	
8890 <i>E 1409</i>	-Secca di Capo Bianco.	42° 49.5' N 10° 19.1' E	Q.W.	16 5	3	N. CARDINAL BY, articulated beacon, topmark.	
8892 <i>E 1410</i>	-Scoglietto, Portoferraio approach.	42° 49.7' N 10° 19.9' E	FI.(2)W. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	79 24	5	Round tower on square masonry house; 26.	
-Portoferraio:							
8896 <i>E 1412</i>	--Forte Stella.	42° 48.9' N 10° 20.1' E	FI.(3)W. period 14s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 7s	207 63	16	White truncated tower; 82.	Visible 104°-014°. Reserve light range 9M.
			F.R.	197 60	7	Same tower.	Visible 100°-131°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ITALY-WEST COAST AND ADJACENT ISLANDS							
8900 <i>E 1415</i>	--Mole, head.	42° 48.7' N 10° 19.8' E	2 F.R. (vert.)	23 7 16 5	3	Iron bracket on wall; 23.	
8904 <i>E 1416</i>	--Pontile G. Massima, head.	42° 48.7' N 10° 19.5' E	2 F.R. (vert.)	28 9 23 7	3	Post, red and white bands; 23.	A F.R. light is shown from each corner of the head.
8916 <i>E 1414</i>	--NW. angle of Tower Point.	42° 48.7' N 10° 19.9' E	2 F.G. (vert.)	43 13 36 11	3	Green post; 3.	
8920 <i>E 1417</i>	--N. mole, head.	42° 48.5' N 10° 19.1' E	F.G.	16 5	3	Green post; 10.	Private light.
8924 <i>E 1417.2</i>	--S. mole, head.	42° 48.4' N 10° 19.1' E	F.R.	16 5	3	Red post; 10.	Private light.
8928 <i>E 1424</i>	-Cavo, N. mole, head.	42° 51.6' N 10° 25.4' E	F.G.	23 7	3	Green tower; 19.	
8932 <i>E 1423</i>	-E. mole, head of pier extension.	42° 51.5' N 10° 25.4' E	2 F.R. (vert.)	36 11 33 10	3	Red mast; 29.	A F.R. 5M light is shown from head of spur of mole.
8934 <i>E 1429</i>	-Pontile Vigneria.	42° 49.2' N 10° 26.1' E	Iso.W. period 2s	33 10	5	White post; 13.	
8936 <i>E 1428</i>	-Rio Marina, breakwater, head.	42° 48.9' N 10° 26.0' E	F.R.	31 9	3	Red post; 23.	
-Porto Azzurro (Longone):							
8940 <i>E 1436</i>	--Pier, head.	42° 45.8' N 10° 23.9' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	20 6	6	Green column; 15.	
8944 <i>E 1434</i>	--Punta S. Giovanni.	42° 45.7' N 10° 23.7' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	49 15	6	White square hut; 10.	Visible 230°-010°.
8948 <i>E 1432</i>	-- Capo Focardo.	42° 45.2' N 10° 24.6' E	Fl.(3)W. period 15s fl. 1.5s, ec. 2s fl. 1.5s, ec. 2s fl. 1.5s, ec. 6.5s	105 32	16	Red tower on old fort; 19.	Reserve light range 11M.
8952 <i>E 1438</i>	-- Monto Poro.	42° 43.6' N 10° 14.3' E	Fl.W. period 5s fl. 1s, ec. 4s	525 160	16	White framework tower; 7.	Reserve light range 12M.
8956 <i>E 1439</i>	-Marina di Campo, pier, root.	42° 44.4' N 10° 14.3' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	111 34	10	Yellow building, white triangle; 11.	
8960 <i>E 1440</i>	--Outer mole, head.	42° 44.5' N 10° 14.4' E	Fl.R. period 5s fl. 1s, ec. 4s	26 8	3	Red mast; 20.	Due to extremity of mole, a distance of not less than 60 meters should be maintained from the light.
8964 <i>E 1441</i>	--Pier, head.	42° 44.6' N 10° 14.3' E	F.R.	23 7	3	Red concrete post ; 16.	Visible 180°-293°. Locally maintained.
8968 <i>E 1448</i>	Isola Pianosa.	42° 35.1' N 10° 05.7' E	Fl.(2)W. period 10s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 7.3s	138 42	18	White tower on white dwelling; 62.	Reserve light range 15M.
8972 <i>E 1450</i>	-Cala San Giovanni, mole, head.	42° 35.0' N 10° 06.0' E	2 F.R. (vert.)	23 7 16 5	3	Red mast; 16.	
8976 <i>E 1454</i>	Scoglio d'Africa.	42° 21.0' N 10° 04.0' E	Fl.W. period 5s fl. 1s, ec. 4s	62 19	12	Round masonry tower; 52.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ITALY-WEST COAST AND ADJACENT ISLANDS							
8980 <i>E 1384</i>	Secche di Vada, off Capo Cavallo.	43° 19.2' N 10° 21.9' E	Fl.(2)W. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	59 18	12	ISOLATED DANGER BRB, tower, topmark; 59.	
8984 <i>E 1388.4</i>	-Head of pier 0.8 km. WNW. of village.	43° 21.1' N 10° 26.6' E	F.G., F.R. (vert.)	23 7 16 5	G. 3 R. 3	Red mast, green bands.	
8988 <i>E 1390</i>	Porto Baratti.	42° 59.6' N 10° 29.8' E	Fl.W. period 3s fl. 1s, ec. 2s	246 75	9	White framework post; 13.	
8992 <i>E 1446</i>	Isola Palmaiola.	42° 51.9' N 10° 28.6' E	Fl.W. period 5s fl. 1s, ec. 4s	344 105	17	White building; 46.	Reserve light range 11M.
8996 <i>E 1455</i>	-Rocchetta.	42° 55.2' N 10° 31.5' E	Fl.(3)W. period 15s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 8s	59 18	11	Square tower; 16.	
PORTOVECCHIO DI PIOMBINO:							
9000 <i>E 1456</i>	-Molo Batteria (Mole Foraneo).	42° 55.8' N 10° 33.2' E	Fl.R. period 5s fl. 1s, ec. 4s	33 10	8	Red iron post; 16.	
9004 <i>E 1458</i>	-Molo Magona d'Italia, at center of head.	42° 55.9' N 10° 32.8' E	F.G.R. (vert.)	23 7 16 5	3	Green mast, red bands; 26.	
9008 <i>E 1457</i>	-Pontile Italsider, head.	42° 56.0' N 10° 33.0' E	4 F.G. (horiz.)	23 7	3	Green posts; 10.	Private light.
9012 <i>E 1459</i>	-Darsena Italsider.	42° 56.1' N 10° 32.7' E	2 F.R. (vert.)	36 11 31 9	3	Skeleton wooden tower, stone base; 28.	Private light.
9014	-Beacon No. "1".	42° 54.0' N 10° 32.3' E	Fl.Y. period 3s fl. 0.5s, ec. 2.5s	16 5	4	SPECIAL Y, articulated beacon, topmark.	Beacon "No. 2" 2.9 miles NE. and "No. 3" 3.9 miles NE. show same characteristics. Radar reflector.
9016 <i>E 1460</i>	Torre del Sale, floating pier, root.	42° 57.0' N 10° 36.0' E	Oc.W. period 3s lt. 2s, ec. 1s	29 9	5	White pole; 26.	Entrance is marked by Oc.G. and Oc.R. lights. Two small towers, each with Fl.Y. lights, mark the sea-shore installation.
9020 <i>E 1461</i>	Follonica, pier head, N. corner.	42° 54.0' N 10° 46.0' E	F.R.G.R. (vert.)	49 15 46 14 40 12	3	Concrete post, red and black bands; 31.	A similar light is shown from S. corner of the head, and a F.G. light from middle of pier. Private light.
9024 <i>E 1462</i>	Portiglione Range, front.	42° 53.0' N 10° 47.0' E	F.R.	75 23	1	Gray framework structure.	Visible 043°-153°. Private light.
9028 <i>E 1462.1</i>	-Rear, about 28 meters 138° from front.	42° 52.8' N 10° 46.6' E	F.R.	75 23	1	Gray framework structure.	Visible 043°-153°. A F.G. light visible 2M, is shown from head of overhead cableway. Private light.
9032 <i>E 1466</i>	Punta Ala, outer mole, elbow.	42° 48.0' N 10° 44.0' E	Fl.W. period 2s fl. 0.5s, ec. 1.5s	39 12	7	White polygon tower; 24.	Obscured inside the port.
9036 <i>E 1466.2</i>	-Entrance.	0° 00.0' 0° 00.0'	Fl.R. period 2s fl. 0.5s, ec. 1.5s		5		Private light.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ITALY-WEST COAST AND ADJACENT ISLANDS							
9040 <i>E 1466.4</i>	--Entrance.	42° 48.2' N 10° 44.0' E	Fl.G. period 2s fl. 0.5s, ec. 1.5s		5		Private light.
9044 <i>E 1468</i>	Castiglione della Pescaia, S. mole, head.	42° 46.0' N 10° 53.0' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	26 8	4	White tower, black bands; 19.	
9048 <i>E 1470</i>	-N. mole, head.	42° 45.6' N 10° 52.2' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	26 8	4	Red and white striped conical tower; 19.	
9052 <i>E 1472</i>	Marina di Grosseto.	42° 43.0' N 10° 59.0' E	2 F.G. (vert.)	23 7 18 5	3	Green post; 16.	
9056 <i>E 1474</i>	Formiche di Grosseto, (Maggiore), N. rock.	42° 34.6' N 10° 52.9' E	Fl.W. period 6s fl. 1s, ec. 5s	77 23	11	White round masonry tower on building; 39.	
9060 <i>E 1476</i>	Talamone.	42° 33.1' N 11° 08.0' E	Fl.(2)W. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	98 30	15	White quadrangular tower; 59.	Reserve light range 11M.
9064 <i>E 1477</i>	-Small mole, head.	42° 33.2' N 10° 08.2' E	F.R.	21 6	3	Red post; 16.	
9068 <i>E 1477.5</i>	-Outer mole, head.	42° 33.2' N 11° 08.2' E	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	33 10	7	Red pillar on pedestal; 18.	
9072 <i>E 1478</i>	-Head of mole, vicinity Bongodi.	42° 33.5' N 11° 09.5' E	F.G.	19 6	3	Green mast; 16.	Private light.
9076 <i>E 1480</i>	Punta Lividonia.	42° 26.7' N 11° 06.3' E	Fl.W. period 5s fl. 1s, ec. 4s	154 47	16	White round tower on two-story dwelling; 39.	Visible 035°-228°. Reserve light range 11M.
9080 <i>E 1483</i>	-Health office mole, Sanita, head.	42° 26.5' N 11° 07.0' E	2 F.G. (vert.)	23 7 18 5	3	Green post; 20.	
PORTO SANTO STEFANO:							
9084 <i>E 1482</i>	-Porto del Valle, E. mole, head.	42° 26.2' N 11° 07.5' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	23 7	4	Red post; 16.	
9088 <i>E 1481</i>	-Molo Giuseppe Garibaldi, SE. of port, head.	42° 26.3' N 11° 07.4' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	23 7	2	Post; 20.	<i>Temporarily extinguished during work in progress on mole extension.</i>
ISOLA DEL GIGLIO:							
9092 <i>E 1486</i>	-Punta Fenaio (Fienao), N. point of island.	42° 23.2' N 10° 52.9' E	Fl.(3)W. period 15s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 8s	129 39	16	White octagonal tower, central red stripe, attached to a red building, white stripe; 33.	Visible 026°-249°. Reserve light range 12M.
9096 <i>E 1488</i>	-Giglio Castello Marina, E. mole, head.	42° 21.5' N 10° 55.4' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	29 9	7	Red tower; 19.	
9100 <i>E 1490</i>	--W. mole, head.	42° 21.5' N 10° 55.3' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	29 9	7	Green tower; 19.	
9104 <i>E 1492</i>	-Punta del Capel Rosso.	42° 19.2' N 10° 55.3' E	Fl.(4)W. period 30s fl. 0.2s, ec. 3.6s fl. 0.2s, ec. 3.6s fl. 0.2s, ec. 3.6s fl. 0.2s, ec. 18.4s	295 90	23	White octagonal tower, dwelling; 66.	Visible 232°-134°. Obscured by Isola di Giannutri over an arc of 008°. Reserve light range 18M.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ITALY-WEST COAST AND ADJACENT ISLANDS							
9108 <i>E 1496</i>	Isola di Giannutri, Punta Rosso.	42° 14.3' N 11° 06.6' E	Fl.W. period 5s fl. 1s, ec. 4s	200 61	13	Red and white banded tower, on red dwelling with white median band.	Visible 195°-106°.
PORT ERCOLE:							
9112 <i>E 1500</i>	-Fort La Rocca.	42° 23.4' N 11° 12.8' E	L.Fl.W.R. period 7s fl. 2s, ec. 5s	300 91	W. 16 R. 13	White round tower on parapet; 62.	R. 177°-285°, W.-010°. Reserve light range W.-11M, R.-8M.
9116 <i>E 1502</i>	-Punta Santa Barbara, mole, head.	42° 23.6' N 11° 12.7' E	Fl.R. period 3s fl. 1s, ec. 2s	30 9	8	White column, red bands; 16.	
9120 <i>E 1503</i>	-Punta Scoglione, N. side of entrance.	42° 23.7' N 11° 12.6' E	Fl.G. period 3s fl. 1s, ec. 2s	30 9	4	Green mast; 15.	
9124 <i>E 1504</i>	-Cala Galera, head of protective mole.	42° 24.2' N 11° 12.7' E	Iso.W.R. period 2s	34 10	W. 10 R. 7	Red and white banded lamppost; 16.	R. 017°-197°, W.-017°.
9128 <i>E 1504.4</i>	--Head of lee mole.	42° 24.2' N 11° 12.7' E	Iso.G. period 2s	34 10	6	Green metal column; 16.	Visible 085°-275°.
9132 <i>E 1508</i>	Monte Cappuccini.	42° 05.8' N 11° 49.1' E	Fl.(2)W. period 10s fl. 0.3s, ec. 3s fl. 0.3s, ec. 6.4s	410 125	24	Round masonry tower; 98.	Obscured eastward of 344°. Radiobeacon.
9136 <i>E 1506</i>	Torre Valdaliga, W. pier, head.	42° 07.2' N 11° 45.9' E	Fl.Y. period 3s fl. 1s, ec. 2s	33 10	4	Yellow post; 22.	F.R. light on chimney about 780 meters NW. Private light.
9137 <i>E 1506.2</i>	-Torrino esterno.	42° 07.4' N 11° 45.1' E	Fl.(3)Y. period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	33 10	5		
9137.5 <i>E 1505</i>	-Torrino intermedio.	42° 07.4' N 11° 45.4' E	Fl.Y. period 3s fl. 1s, ec. 2s	20 6	5		
9138 <i>E 1506.2</i>	-E. pier, head.	42° 07.2' N 11° 45.9' E	Fl.Y. period 2s fl. 0.5s, ec. 1.5s	33 10	4	Yellow post; 22.	
CIVITAVECCHIA:							
9139 <i>E 1507</i>	-Punta Mattonara.	42° 06.6' N 11° 45.9' E	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	10 3	5	PORT (A) R, articulated beacon.	Private light.
9140 <i>E 1510</i>	-Antemurale Colombo, head.	42° 05.8' N 11° 46.6' E	Fl.G. period 3s fl. 1s, ec. 2s	46 14	8	Green lantern on pedestal; 16.	
-RACON							
			C(- • - •) period 30s		10		
9148 <i>E 1514</i>	-Banchina Campagna Rona, NW. of Molo Amerigo Vespucci, head.	42° 05.7' N 11° 46.9' E	Fl.R. period 4s fl. 1s, ec. 3s	30 9	8	Post, red and white bands; 16.	
9152 <i>E 1513</i>	-Banchina XIV Maggio, mole, head.	42° 05.8' N 11° 46.8' E	2 F.R. (vert.)	20 6 13 4	3	Red pile.	
9154 <i>E 1518.5</i>	Riva di Traiano, outer mole, head.	42° 03.9' N 11° 48.6' E	Fl.G. period 5s fl. 1.5s, ec. 3.5s	33 10	6	Green mast; 16.	Private. 2 F.R. (vert.) shown on inner mole.
9154.5 <i>E 1518.7</i>	-Beacon.	42° 04.0' N 11° 48.7' E	Fl.R. period 5s fl. 1.5s, ec. 3.5s	26 8	5	Red beacon.	Private.

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ITALY-WEST COAST AND ADJACENT ISLANDS							
9156 <i>E 1518</i>	-Molo Lazaretto, head.	42° 05.5' N 11° 47.2' E	2 F.R. (vert.)	26 8 21 6	3	Red pile; 19.	2 F.G. (vert.) and 2 F.R. (vert.) shown, respectively, from piers northward.
9160 <i>E 1519</i>	Santa Marinella, on the outer mole.	42° 02.0' N 11° 52.5' E	2 F.R. (vert.)	23 7 19 6	3	Red post; 13.	
9164 <i>E 1519.4</i>	-On the inner mole.	42° 02.0' N 11° 52.4' E	2 F.G. (vert.)	16 5 13 4	3	Green post; 13.	
FIUMICINO:							
9168 <i>E 1524</i>	-N. mole, head.	41° 46.3' N 12° 13.2' E	Fl.R. period 3s fl. 1s, ec. 2s	29 9	8	Red column; 19.	
9172 <i>E 1526.3</i>	-S. mole, 60 meters from head.	41° 46.2' N 12° 12.9' E	2 F.G. (vert.)	30 9 23 7	4	Green post; 16.	
9176 <i>E 1526.2</i>	--150 meters from head.	41° 46.2' N 12° 13.2' E	Fl.G. period 3s fl. 1s, ec. 2s	28 9	7	Green column; 16.	Visible 095°-276°.
9180 <i>E 1526</i>	--At root.	41° 46.1' N 12° 13.5' E	Fl.W. period 3s fl. 1s, ec. 2s	66 20	11	White tower; 56.	Fl.G. 5s 5M and Fl.R. 5s 5M mark mouth of Tevere River 1.9 miles SSE.
9184 <i>E 7053</i>	-Offshore pipeline terminal platform, "R2"	41° 44.6' N 12° 10.0' E	Fl.(2)W. period 4s fl. 0.5s, ec. 0.5s fl. 1s, ec. 2s	33 10	5	Mast.	Floating hose with Fl.R. lights attached to platform.
9188 <i>E 7054</i>	--Platform "R1".	41° 45.1' N 12° 09.2' E	Fl.W. period 2s fl. 0.5s, ec. 1.5s	33 10	5	Post.	Nautophone: Mo.(N) ev. 30s (bl. 4s, si. 2s, bl. 2s, si. 22s).
ANZIO:							
9192 <i>E 1538</i>	-Cape d'Anzio.	41° 26.7' N 12° 37.3' E	Fl.(2)W. period 10s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 7.3s	121 37	22	Black and white banded round tower on white building; 68.	Visible 255°-155°.
9196 <i>E 1540.5</i>	-Molo Frangiflutti, elbow.	41° 26.6' N 12° 38.3' E	Fl.R. period 3s fl. 1s, ec. 2s	39 12	8	Red mast; 18.	
9200 <i>E 1541</i>	-Beacon.	41° 26.7' N 12° 38.1' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	18 5	4	Green post on dolphin; 19.	
9204 <i>E 1541.3</i>	Molo Sottoflutto, head.	41° 27.0' N 12° 40.0' E	Fl.R. period 5s fl. 1.5s, ec. 3.5s	36 11	7	Red pedestal.	
9208 <i>E 1541.2</i>	-Molo Sopraflutto, head.	41° 27.1' N 12° 39.8' E	Fl.G. period 5s fl. 1.5s, ec. 3.5s	36 11	7	Green pedestal.	
9209 <i>E 1541.35</i>	-Avamporto, pier, head.	41° 27.2' N 12° 39.6' E	2 F.G. (vert.)	29 9	4		2 meters apart. Visible 355°-295°.
9212 <i>E 1541.6</i>	Tori di Foce Verde, pier, head.	41° 24.5' N 12° 48.7' E	Fl.(2)Y. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	46 14	4	Yellow iron post; 30.	Private light.

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ITALY-WEST COAST AND ADJACENT ISLANDS							
9216 <i>E 1577</i>	Isola Zannone, on Capo Negro.	40° 58.2' N 13° 03.5' E	Fl.(3)W. period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	121 37	12	White octagonal tower, one-story building; 42.	Visible 060°-280°.
9220 <i>E 1577.2</i>	Punta Varo.	40° 57.9' N 13° 03.0' E	L.Fl.W. period 8s fl. 2s, ec. 6s	134 41	8	White framework tower; 16.	Visible 270°-044°.
ISOLE DI PONZIA:							
9224 <i>E 1588</i>	-Punta della Guardia.	40° 52.6' N 12° 57.2' E	Fl.(3)W. period 30s fl. 0.3s, ec. 5.7s fl. 0.3s, ec. 5.7s fl. 0.3s, ec. 17.7s Fl.R. period 5s fl. 1s, ec. 4s	367 112	24	White octagonal tower on two-story red and white banded dwelling; 58.	Visible 225°-155°, except where obscured by Isola Palmarola (118°-136°). Reserve light range 18M.
9228 <i>E 1580</i>	-Rotonda della Madonna, Porto di Ponza entrance, S. side.	40° 53.7' N 12° 58.3' E	Fl.(4)W. period 15s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 8s F.R.	200 61	12	White conical tower, dwelling; 59.	Visible 206°-023°, 070°-080° when more than 1 mile distant. Obscured by Zannone Island through an arc of 7°. Reserve light range 11M.
9232 <i>E 1584</i>	-Porto di Ponza, mole, head.	40° 53.7' N 12° 58.4' E	Fl.Y. period 3s fl. 1s, ec. 2s	39 12	9	Red octagonal tower; 39.	Visible 301°-341°.
9236 <i>E 1583</i>	-Breakwater, head.	40° 53.8' N 12° 58.4' E	Fl.R. period 3s fl. 1s, ec. 2s	26 8	8	Red post; 23.	
9240 <i>E 1582</i>	Scoglio Ravia.	40° 53.9' N 12° 57.9' E	Fl.G. period 3s fl. 1s, ec. 2s	85 26	6	Green hut; 10.	
9244 <i>E 1542</i>	Capo Circeo.	41° 13.2' N 13° 04.2' E	Fl.W. period 5s fl. 0.2s, ec. 4.8s	125 38	23	White round tower, octagonal base; 59.	Visible 263°-107°.
TERRACINA:							
9248 <i>E 1550</i>	-Mole Gregoriano, head.	41° 16.9' N 13° 15.6' E	Fl.R. period 5s fl. 1s, ec. 4s	39 12	9	Red column on red pedestal; 30.	
9252 <i>E 1551</i>	-Outer mole, head.	41° 17.0' N 13° 15.6' E	Fl.G. period 5s fl. 1s, ec. 4s	26 8	7	Green pole; 20.	
9256 <i>E 1552</i>	-S. side of entrance to canal.	41° 17.0' N 13° 16.0' E	2 F.R. (vert.)	26 8 20 6	3	Red mast; 39.	
9260 <i>E 1554</i>	-N. side of entrance to canal.	41° 17.0' N 13° 16.0' E	2 F.G. (vert.)	26 8 20 6	3	Green mast; 39.	
GAETA:							
9264 <i>E 1558</i>	-Monte Orlando.	41° 12.3' N 13° 34.7' E	Fl.(3)W. period 15s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 8.8s	607 185	23	White round stone tower; 46.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ITALY-WEST COAST AND ADJACENT ISLANDS							
9268 <i>E 1560</i>	-Punta dello Stenardo, S. entrance of port.	41° 12.5' N 13° 35.5' E	Fl.(2)R. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	66 20	8	Red round masonry tower; 20.	
9272 <i>E 1562</i>	-Punta S. Antonio, mole, head.	41° 12.9' N 13° 34.8' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	33 10	8	Red column on red pedestal; 16.	
PORTO SALVO:							
9276 <i>E 1564</i>	-Mole, head.	41° 13.2' N 13° 34.4' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	27 8	8	Green metal column on green pedestal; 16.	
9280 <i>E 1565</i>	-Front range, about 307 meters 269° from head of mole.	41° 13.4' N 13° 34.4' E	Q.R.				Private light.
9284 <i>E 1565.1</i>	--Rear, 190 meters 269° from front.	41° 13.4' N 13° 34.2' E	F.R.				Private light.
9288 <i>E 1566</i>	-Oil pier, head.	41° 13.3' N 13° 34.6' E	2 F.R. (vert.)	36 11 33 10	1	Metal post; 23.	Private light.
9292 <i>E 1567</i>	-Root spur of oil pier.	41° 13.3' N 13° 34.4' E	F.R.				
9294 <i>E 1568</i>	-Banchino Salvo d'Acquisto, mole, head.	41° 13.9' N 13° 34.4' E	Fl.(2)G. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	33 10	8	Green structure; 23.	
9296 <i>E 1570</i>	Porticciolo di Capossele, W. side of entrance.	41° 14.9' N 13° 36.1' E	F.R.	13 4	2	Red mast; 7.	Private light.
9300 <i>E 1570.2</i>	-E. side of entrance.	41° 15.0' N 13° 35.9' E	F.G.	13 4	2	Green mast; 8.	Private light.
9304 <i>E 1573</i>	Formia, near outer head of breakwater.	41° 15.0' N 13° 37.0' E	Fl.W.R. period 3s fl. 1s, ec. 2s	36 11	W. 11 R. 8	Red column; 23.	Visible W. 252°-072°, R.-252°.
9308 <i>E 1572</i>	-E. breakwater, head.	41° 15.2' N 13° 36.9' E	Fl.G. period 3s fl. 1s, ec. 2s	30 9	7	Green metal column; 16.	
9310 <i>E 1574</i>	Scauri, breakwater, head.	41° 15.1' N 13° 42.1' E	Fl.G. period 5s fl. 1s, ec. 4s	16 5	4	Green mast; 10.	Private light.
9312 <i>E 1575.5</i>	Coppola Pinetemane Marina.	40° 59.0' N 13° 58.0' E	F.R.		3	Red post.	
ISOLA VENTOTENE:							
9320 <i>E 1592</i>	- Porto Nicolo.	40° 47.8' N 13° 26.0' E	Fl.W. period 5s fl. 1s, ec. 4s	69 21	15	White masonry tower on white dwelling; 52.	Visible 158°-022°, obscured 288°-307° over Isola Santo Stefano. Reserve light range 11M.
9324 <i>E 1594</i>	-Cala Rossano, outer breakwater, head.	40° 48.0' N 13° 26.1' E	Fl.R. period 5s fl. 1s, ec. 4s	26 8	5	Red post; 16.	Private light.
9326 <i>E 1595</i>	--Inner breakwater, 15 meters from head.	40° 48.2' N 13° 26.9' E	Fl.G. period 5s fl. 1s, ec. 4s	20 6	4	Green mast; 16.	Private light.
ISOLA D'ISCHIA:							
9328 <i>E 1598</i>	- Punta Imperatore.	40° 42.7' N 13° 51.2' E	Fl.(2)W. period 15s fl. 0.2s, ec. 3.6s fl. 0.2s, ec. 11s	538 164	22	White tower attached to two- story dwelling; 44.	Visible 316°-190°. Reserve light range 18M.

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ITALY-WEST COAST AND ADJACENT ISLANDS							
9332 <i>E 1600</i>	-Folio, W. mole, head.	40° 44.5' N 13° 51.5' E	Fl.R.G. period 3s fl. 0.5s, ec. 2.5s	30 9	4	Green post; 20.	G. 166°-014°, R.-166°.
9333 <i>E 1600.5</i>	--E. mole, head.	40° 44.4' N 13° 51.6' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	20 6	2	Red post; 13.	Private light.
9340 <i>E 1606</i>	-Casamiccola, 20 meters from head of outer mole.	40° 45.0' N 13° 54.3' E	Fl.G. period 4s	23 7	5	Green post.	
9341 <i>E 1606.2</i>	--Inner mole.	40° 45.1' N 13° 54.6' E	F.R.	23 7	2	Red post.	Private light.
-Ischia Porto:							
9344 <i>E 1608</i>	--Bagno, mole, head.	40° 44.9' N 13° 56.6' E	Fl.W.R. period 3s fl. 1s, ec. 2s	43 13	W. 15 R. 12	Red round tower, rectangular base; 36.	R. 127°-197°, W.-127°. Horn: Mo.(P) ev. 28s.
9348 <i>E 1610</i>	--Harbor, W. side of entrance.	40° 44.8' N 13° 56.5' E	Fl.G. period 3s fl. 1s, ec. 2s	14 4	8	Green turret; 10.	
9352 <i>E 1612</i>	--Harbor, E. side of entrance.	40° 44.7' N 13° 56.6' E	Fl.R. period 3s fl. 1s, ec. 2s	14 4	8	Red conical turret; 10.	Visible 196°-217°.
9356 <i>E 1614</i>	-Castello d' Ischia.	40° 43.9' N 13° 58.1' E	L.Fl.W. period 6s fl. 2s, ec. 4s	269 82	16	Gray iron framework structure on parapet; 10.	Visible 119°-001°.
ISOLA DI PROCIDA:							
9360 <i>E 1614.3</i>	-Secche Formiche di Vivara.	40° 44.6' N 13° 58.7' E	Q.(9)W. period 15s	16 5	5	W. CARDINAL YBY, articulated beacon, topmark.	Radar reflector.
9362 <i>E 1615</i>	-Porticciolo della Chiaiolella, outer mole.	40° 44.8' N 14° 00.5' E	2 F.G. (vert.)	23 7 30 9	4	Green mast; 23.	
9363 <i>E 1615.2</i>	-Molo Ponente, head.	40° 44.8' N 14° 00.4' E	2 F.R. (vert.)	30 9 23 7	4	Red mast; 23.	
9364 <i>E 1618</i>	-Punta Piopetto.	40° 46.2' N 14° 01.0' E	Fl.(3)W. period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	69 21	11	White post on square stone base, red lantern, 10.	Visible 076°-287°.
9368 <i>E 1616</i>	-Procida, mole, head.	40° 46.2' N 14° 01.8' E	Fl.G. period 3s fl. 1s, ec. 2s	33 10	8	Green column, on green pedestal; 23.	
9372 <i>E 1617</i>	-E. breakwater, head.	40° 46.0' N 14° 01.8' E	Fl.R. period 3s fl. 1s, ec. 2s	33 10	8	Red column on red base; 24.	Visible 110°-070°.
9376 <i>E 1619</i>	-Secca del Torrione, S. extremity of shoal.	40° 46.5' N 14° 02.6' E	Q.(6)+L.Fl.W. period 15s	16 5	5	S. CARDINAL YB, articulated beacon, topmark.	Radar reflector.
GOLFO DI POZZUOLI:							
9380 <i>E 1620</i>	-Capo Miseno.	40° 46.6' N 14° 05.4' E	Fl.(2)W. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	262 80	16	White truncated tower, on two-story building, gray trim; 39.	Visible 199°-112°.
9384 <i>E 1622</i>	-Baia, Fortino Tenaglia.	40° 48.7' N 14° 04.9' E	Iso.R. period 4s	43 13	7	Red tower; 26.	
9388 <i>E 1623</i>	-Arco Felice, Pontile Pirelli, W. corner.	40° 49.6' N 14° 06.3' E	F.Y.	26 8	4	Yellow mast; 20.	F.Y. 4M light marks E. corner. Private light.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ITALY-WEST COAST AND ADJACENT ISLANDS							
9392 <i>E 1625</i>	-Pozzuoli, Molo Caligoliano, head.	40° 49.2' N 14° 06.9' E	Iso.G. period 4s	36 11	8	Green and white round tower on mole; 34.	
9396 <i>E 1625.2</i>	-Darsena Pescatori, breakwater, head.	40° 49.5' N 14° 07.1' E	F.G.	20 6	3	Green mast; 13.	Private light.
9400 <i>E 1628.4</i>	-Isola de Nisida, Molo Dandolo, spur.	40° 47.9' N 14° 09.9' E	Fl.G. period 3s	46 14	7	Green pole; 16.	
-Bagnoli:							
9404 <i>E 1626</i>	--Pontile Ilva Nord, outer corner.	40° 48.4' N 14° 09.7' E	F.R.	26 8	3		A F.R. light is shown from the opposite corner.
9408 <i>E 1626.2</i>	--Mole.	40° 48.4' N 14° 10.1' E	F.G.	20 6	3		A F.G. is shown from the opposite corner.
9412 <i>E 1626.4</i>	--Pontile Ilva Sud, outer corner.	40° 48.2' N 14° 10.1' E	F.R.	13 4	3		A F.R. light is shown from the opposite corner.
9416 <i>E 1626.6</i>	--Pontile Montecantini, N. corner.	40° 48.3' N 14° 10.4' E	F.R.	10 3	3	Red post.	A F.G. light is shown from the S. corner.
9420 <i>E 1628.7</i>	-Secca della Cavallara, S. extremity of shoal.	40° 47.0' N 14° 11.3' E	Q.(6)+L.Fl.W. period 15s	18 5	5	S. CARDINAL YB, articulated beacon, topmark.	Radar reflector.
NAPOLI:							
9424 <i>E 1629</i>	-Porticciolo Sannazzaro, W. side of entrance, mole, head.	40° 49.6' N 14° 13.6' E	Fl.R. period 5s fl. 1s, ec. 4s	29 9	8	Red iron post; 16.	
9428 <i>E 1629.4</i>	--E. breakwater, head.	40° 49.6' N 14° 13.4' E	Fl.G. period 5s fl. 1s, ec. 4s	26 8	7	Green iron post; 16.	
9432 <i>E 1631</i>	-Porticciolo di Santa Lucia (Santa Lucia Harbor), N. side of entrance, angle of quay.	40° 49.7' N 14° 15.1' E	Fl.G. period 3s fl. 1s, ec. 2s	23 7	4	Green metal column; 16.	Visible 204°-103°. Fl.R. 7s 3M shown from two radio masts at Forte del Ovo.
9436 <i>E 1632</i>	--S. side of entrance, head of detached breakwater.	40° 49.7' N 14° 15.2' E	Fl.R. period 3s fl. 1s, ec. 2s	30 9	5	Red metal column; 20.	
9440 <i>E 1636</i>	-Porticciolo del Molosiglio, S. side of entrance, mole, head.	40° 49.9' N 14° 15.4' E	Fl.R. period 5s fl. 1s, ec. 4s	33 10	8	Red metal column; 16.	
9444 <i>E 1634</i>	--N. mole, head.	40° 50.0' N 14° 15.4' E	Fl.G. period 5s fl. 1s, ec. 4s	30 9	3	Green iron post; 16.	
9452 <i>E 1652</i>	-Diga Foranea Emanuele Filiberto Duca D'Aosta, E. head.	40° 49.5' N 14° 17.9' E	Fl.R. period 4s fl. 1s, ec. 3s	39 12	5	Red column on pedestal; 16.	Channel marked by 2 Fl.G. and 2 Fl.R. articulated lights.
9456 <i>E 1653</i>	--Bend, near E. head.	40° 49.9' N 14° 17.4' E	Fl.(2)R. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	23 7	4	Red column on pedestal; 16.	Visible 122°-308°.
9460 <i>E 1654</i>	--W. end (angle).	40° 50.2' N 14° 16.9' E	Fl.Y. period 4s fl. 1s, ec. 3s	23 7	5	Yellow metal column; 16.	
9464 <i>E 1648</i>	-Antemurale Thaon de Revel, S. head.	40° 49.9' N 14° 16.7' E	Fl.G. period 4s fl. 1s, ec. 3s	59 18	9	Green round tower; 39.	
9465 <i>E 1647.5</i>	-Breakwater extension, head.	40° 49.8' N 14° 16.6' E	Fl.R. period 3s fl. 1s, ec. 2s	49 15	4	Grey tower; 33.	

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ITALY-WEST COAST AND ADJACENT ISLANDS							
9468 <i>E 1647</i>	-Diga Duca degli Abruzzi.	40° 49.8' N 14° 16.5' E	Fl.(4)W. period 15s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 7.2s	59 18	18	White platform on pile.	Nautophone: Mo.(N) ev. 30s.
	-RACON		N(—•) period 30s		10		
9476 <i>E 1650</i>	-Molo S. Vincenzo spur, W. side of entrance.	40° 49.9' N 14° 16.3' E	2 F.R. (vert.)	26 8 20 6	3	Red iron framework structure; 20.	
9480 <i>E 1658</i>	-Molo Martello, head.	40° 50.3' N 14° 16.1' E	2 F.G. (vert.)	23 7 16 5	3	Green post; 19.	Partially obscured by Molo San Vincenzo.
9484 <i>E 1662</i>	-Drydock No. "3", SW. corner.	40° 50.2' N 14° 16.3' E	2 F.R. (vert.)	30 9 26 8	3	Cement pole; 26.	
9488 <i>E 1664</i>	Darsena Armando Diaz, spur, head.	40° 50.3' N 14° 16.6' E	2 F.G. (vert.)	23 7 19 6	2	Green mast; 16.	
9492 <i>E 1663</i>	-Calata della Marinella Pier, head.	40° 50.5' N 14° 16.5' E	2 F.R.G. (vert.)		3		Private.
9496 <i>E 1664.2</i>	Darsena Viltorio Veneto, spur, head.	40° 50.3' N 14° 16.9' E	Fl.Y. period 3s fl. 1s, ec. 2s	30 9	6	Yellow metal column; 16.	
9500 <i>E 1667</i>	-Pontile Vigliena, SE. corner.	40° 50.1' N 14° 17.5' E	F.G.	20 6	2	Green mast; 13.	
9508 <i>E 1669</i>	-Darseng Progresso, S.W. corner.	40° 49.8' N 14° 17.8' E	Fl.G. period 3s fl. 1s, ec. 2s	33 10	8	Green column on green pedestal; 16.	
9516 <i>E 1678</i>	Portici, head of the quay, inner side of breakwater.	40° 48.6' N 14° 20.1' E	Fl.W. period 3s fl. 1s, ec. 2s	52 16	11	White metal framework tower; 46.	
9520 <i>E 1679</i>	-NW. spur of breakwater, mole, head.	40° 48.6' N 14° 19.9' E	Fl.G. period 3s fl. 1s, ec. 2s	26 8	3	Green mast; 20.	
9524 <i>E 1680</i>	Torre del Greco, at foot of Mt. Vesuvius, mole, head.	40° 47.0' N 14° 21.8' E	Fl.R. period 5s fl. 1s, ec. 4s	30 9	3	Red post; 20.	Visible 100°-350°.
9528 <i>E 1681</i>	-Inner mole, head.	40° 47.1' N 14° 21.7' E	2 F.G. (vert.)	26 8 23 7	3	Green mast; 20.	Private.
9532 <i>E 1685</i>	Torre Annunziata, marks shoal opposite Molo di Levante.	40° 44.9' N 14° 26.9' E	Fl.(2)G. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	13 4	5	STARBOARD (A) G, articulated beacon, topmark.	Radar reflector.
9536 <i>E 1684</i>	-W. mole, head.	40° 44.7' N 14° 27.0' E	Fl.(2)R. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	43 13	9	Red metal column; 16.	To avoid reef, vessels should pass not closer than 80 meters.
9538 <i>E 1687</i>	-Fishing harbor, mole, head.	40° 45.2' N 14° 26.8' E	F.R.	16 5	4	Red post; 13.	Private.

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ITALY-WEST COAST AND ADJACENT ISLANDS							
CASTELLAMMARE DI STABIA:							
9540 <i>E 1692</i>	-Main, 1 km. 187° from head of mole.	40° 41.3' N 14° 28.3' E	Fl.(2)W. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	374 114	16	White tower on white 3-story building; 52.	Visible 095°-223°. Reserve light range 12M.
9544 <i>E 1693</i>	-W. mole, head.	40° 41.8' N 14° 28.4' E	Fl.G. period 5s fl. 1s, ec. 4s	39 12	8	Green metal column; 16.	
9548 <i>E 1694</i>	-Molo di Sottoflutto, head.	40° 41.8' N 14° 28.5' E	2 F.R. (vert.)	26 8 20 6	4	Red mast; 19.	
9552 <i>E 1695</i>	Marine di Equa, 30 meters from breakwater, head.	40° 40.0' N 14° 25.0' E	2 F.G. (vert.)	26 8 20 6	4	Green piling; 20.	2 F.R. (vert.) marks opposite breakwater head. Vessels should pass not closer than 40 meters.
9556 <i>E 1696</i>	Marina di Cassano, mole, head.	40° 37.8' N 14° 24.1' E	2 F.G. (vert.)	23 7 20 6	3	Green skeleton tower; 20.	Keep at least 20 meters distance from light. Private light.
9560 <i>E 1698</i>	Sorrento, breakwater, head.	40° 37.8' N 14° 22.6' E	Fl.G. period 3s fl. 1s, ec. 2s	31 9	5	Green metal column; 17.	
9564 <i>E 1700</i>	Scoglio Vervecce.	40° 37.1' N 14° 19.6' E	Fl.(2)W. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	49 15	7	ISOLATED DANGER BRB, topmark; 16.	
9568 <i>E 1702</i>	Punta Campanella, adjacent to Torre Minerva.	40° 34.1' N 14° 19.6' E	L.Fl.W. period 5s fl. 2s, ec. 3s	213 65	10	Black and white banded framework tower; 59.	Visible 270°-166°, obscured by Isola di Capri 066°-089°.
ISOLA DI CAPRI:							
9572 <i>E 1706</i>	-Punta Carena.	40° 32.2' N 14° 11.9' E	Fl.W. period 3s fl. 0.2s, ec. 2.8s	240 73	25	Red octagonal tower on two-story dwelling; 91.	Visible 265°-175°. Radiobeacon.
9576 <i>E 1708</i>	-Il Capo, on rock off NE. point of island.	40° 33.9' N 14° 15.9' E	Fl.(2)W. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	39 12	7	White lamppost; 16.	Visible 110°-335°.
9580 <i>E 1710</i>	-Marina Grande, breakwater, head.	40° 33.5' N 14° 14.7' E	Fl.G. period 3s fl. 1s, ec. 2s	36 11	8	Green iron structure; 16.	
9584 <i>E 1711</i>	--Molo di Sopraflutto, head.	40° 33.4' N 14° 14.9' E	Fl.R. period 3s fl. 1s, ec. 2s	30 9	8	Red structure; 16.	Vessels should pass not closer than 50 meters.
9588 <i>E 1716</i>	Isolotti Li Galli, N. extremity.	40° 34.9' N 14° 26.2' E	Fl.W. period 5s fl. 1s, ec. 4s	220 67	6	White quadrangular framework tower, attached to hut; 39.	
AMALFI:							
9592 <i>E 1718</i>	-W. mole, head.	40° 37.8' N 14° 36.2' E	Fl.R. period 5s fl. 1s, ec. 4s	43 13	8	Red framework structure; 16.	
9596 <i>E 1720</i>	-Stone jetty, N. side of harbor.	40° 37.9' N 14° 36.2' E	2 F.G. (vert.)	26 8 23 7	3	Green pole; 20.	

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ITALY-WEST COAST AND ADJACENT ISLANDS							
9600 E 1722	Capo d'Orso.	40° 38.0' N 14° 40.9' E	Fl.(3)W. period 15s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 8s	217 66	16	White tower, red band on two story dwelling; 16.	Visible 263°-093°. Reserve light range 12M.
SALERNO:							
9604 E 1730	-Outer elbow.	40° 40.3' N 14° 45.3' E	Fl.W. period 3s fl. 1s, ec. 2s	43 13	11	White tower; 16.	
9612 E 1730.2	-Molo di Levante, head.	40° 39.8' N 14° 44.7' E	Fl.G. period 5s fl. 1s, ec. 4s	42 13	9	Green post; 31.	
RACON			C(— • — •). period 30s		6		
9616 E 1730.4	-Molo di Ponente, head.	40° 40.0' N 14° 44.8' E	Fl.R. period 5s fl. 1s, ec. 4s	43 13	8	Red lantern on hut; 31.	
9620 E 1733	-Old port, Banchina Manfredi, S. corner.	40° 40.4' N 14° 45.1' E	2 F.G. (vert.)	26 8 20 6	3	Green post; 16.	
9624 E 1733.5	-Secca Manfredi.	40° 40.4' N 14° 45.4' E	Fl.G. period 6s fl. 1s, ec. 5s	16 5	2	Green post; 13.	
9626 E 1734	-Port Masuccio Salernitano Outer mole, head.	40° 40.2' N 14° 46.0' E	2 F.G. (vert.)	20 6 16 5	3	Green mast; 13.	
9627 E 1734.3	--Inner mole, head.	40° 40.3' N 14° 46.1' E	2 F.R. (vert.)	20 6 16 5	3	Red mast; 13.	
9628 E 1737	San Marco di Castellabate, W. mole.	40° 16.0' N 14° 56.1' E	Fl.G. period 4s fl. 1s, ec. 3s	21 6	3	Green mast, masonry hut; 15.	
9632 E 1735	Agropoli.	40° 21.2' N 14° 59.3' E	Fl.(2)W. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	138 42	16	White battle mounted tower on square hut; 33.	Reserve light range 12M.
9636 E 1738	Isolotto Licosa, near Punta Licosa.	40° 15.0' N 14° 54.1' E	Fl.(2)W. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	43 13	11	White round tower, 31.	
9640 E 1739	Acciaroli, outer mole, head.	40° 10.5' N 15° 02.7' E	Fl.W.R. period 3s fl. 1s, ec. 2s	26 8	W. R. 6 4	White and red mast; 20.	R. 293°-346°, W.-126°.
9644 E 1739.2	-Inner mole, head.	40° 10.5' N 15° 02.7' E	2 F.G. (vert.)	16 5	1		
9648 E 1739.4	-500 meters E. of outer mole, head.	40° 10.5' N 15° 02.8' E	Iso.R.G. period 2s	14 4	4	Red mast.	R. shore-062°, G.-083°.
9650 E 1739.7	Casalvelino Marina, outer mole, head.	40° 10.5' N 15° 06.5' E	Fl.G. period 3s	26 8	5	Green post.	
9650.1 E 1739.8	-Inner Mole, outer arm.	40° 10.5' N 15° 06.5' E	Fl.R. period 3s	26 8	5	Red post.	
9652 E 1740	Capo Palinuro.	40° 01.4' N 15° 16.6' E	Fl.(3)W. period 15s fl. 0.3s, ec. 2.7s fl. 0.3s, ec. 2.7s fl. 0.3s, ec. 8.7s	675 206	25	White octagonal tower on two-story dwelling; 46.	Visible 286°-132°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ITALY-WEST COAST AND ADJACENT ISLANDS							
9656 E 1741	Camerota marina.	40° 00.0' N 15° 23.0' E	Fl.R. period 4s fl. 1s, ec. 3s	26 8	3	Red pole; 16.	
9660 E 1742	Scario.	40° 02.9' N 15° 29.7' E	Fl.(4)W. period 12s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	79 24	15	White octagonal tower, two-story dwelling; 40.	Obscured when bearing more than 025°. Reserve light visible 8M.
9661 E 1743	-Outer mole, head.	40° 03.0' N 15° 30.0' E	Fl.R. period 3s fl. 1s, ec. 2s	23 7	4	Red post; 16.	Vessels should not pass within 15 meters.
9662 E 1743.2	-Inner mole, head.	40° 02.9' N 15° 29.5' E	F.G.	16 5	3	Green post.	Vessels should not pass within 40 meters.
9664 E 1746	Sapri (Pisacane), on Punta del Fortino.	40° 04.0' N 15° 37.0' E	Fl.(2)W. period 7s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5s	43 13	7	Square red tower; 13.	Visible 223°-083°.
9668 E 1747	Maratea, outer mole, head.	39° 59.0' N 15° 43.0' E	Fl.R. period 3s fl. 1s, ec. 2s	26 8	6	Red pile; 11.	
9672 E 1747.3	-Head of lee mole.	39° 59.2' N 15° 42.6' E	F.G.	24 7	4	White and black banded lamppost; 11.	
9674 E 1747.2	-S. breakwater, head.	39° 59.2' N 15° 42.6' E	Fl.G. period 3s fl. 1s, ec. 2s	26 8	6	Green lantern; 16.	
9676 E 1750	Capo Bonifati.	39° 32.5' N 15° 53.3' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	207 63	15	White iron structure and lantern; 23.	
9680 E 1752	Paola.	39° 21.5' N 16° 02.0' E	Fl.(3)W. period 15s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 8s	175 53	15	Masonry tower; 56.	Visible 315°-160°.
GOLFO DI SANT EUFEMIA:							
9684 E 1756	-Capo Suvero.	38° 57.1' N 16° 09.5' E	Fl.(2)W. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	190 58	16	White tower; 82.	Visible 280°-155°. Reserve light range 8M.
9688 E 1756.5	-Turina, pier, head.	38° 51.1' N 16° 13.6' E	F.R.G.		3		
9692 E 1757	-Vibo Valentia Marina, N. mole, head.	38° 43.4' N 16° 07.8' E	Fl.W.G. period 5s fl. 1s, ec. 4s	56 17	W. 15 G. 12	Green tower; 49.	W. 068°-230°, G.-068°. Reserve light range 11/9M.
9696 E 1758	--S. mole, head.	38° 43.2' N 16° 07.8' E	Fl.R. period 5s fl. 1s, ec. 4s	23 7	8	Red column on red pedestal; 16.	
9700 E 1760	-Tropea, mole, head.	38° 40.7' N 15° 54.1' E	2 F.G. (vert.)	46 14 43 13	4	Green post; 39.	
STRETTO DI MESSINA:							
9704 E 1762	-Capo Vaticano.	38° 37.1' N 15° 49.7' E	Fl.(4)W. period 20s fl. 0.2s, ec. 3.1s fl. 0.2s, ec. 3.1s fl. 0.2s, ec. 3.1s fl. 0.2s, ec. 9.9s	354 108	24	White round tower, white dwelling; 26.	Obscured in the Golfo di Santa Eufemia when bearing E. of 205°. Reserve light range 18M. Radiobeacon.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ITALY-WEST COAST AND ADJACENT ISLANDS							
9704.5 E 1763	Gioia Tauro, N. breakwater.	38° 26.7' N 15° 53.5' E	Fl.R. period 4s fl. 1s, ec. 3s	46 14	8	Red tower; 33.	
	RACON		G(— — •)				
9704.6 E 1763.35	Dir. Lt. 103°.	38° 26.5' N 15° 54.3' E	Dir.F.Fl.W.R.G. period 3s	72 22	13		Fl.G.098°-099°, F.G.-100.25°, Al.Fl.W.G.-102.5°, F.W.- 103.5°, Al.Fl.W.R.-105.75°, F.R.-107°, Fl.R.-108°.
9704.7 E 1763.2	-S. breakwater.	38° 26.6' N 15° 53.4' E	Fl.G. period 4s fl. 1s, ec. 3s	46 14	8	Green tower; 33.	
9705 E 1764	--Condoleo di Scilla Range, front.	38° 15.0' N 15° 45.0' E	Fl.(2)Y. period 4s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s		2	SPECIAL Y, topmark, letter "G".	Marks SW. limit of prohibited area. Private light.
9705.1 E 1764.1	---Rear, 20 meters 113° from front.	38° 15.2' N 15° 44.6' E	Fl.(2)Y. period 4s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s		2	SPECIAL Y, topmark, letter "G".	Private light.
9706 E 1764.3	--Farazzina Range, front.	38° 15.6' N 15° 45.7' E	Fl.(2)Y. period 4s		2	SPECIAL Y, topmark, letter "G".	Marks NE. limit of prohibited area. Private light.
9706.7 E 1764.31	---Rear, 166° from front.	38° 15.6' N 15° 45.7' E	Fl.(2)Y. period 4s		2	SPECIAL Y, topmark, letter "G".	Private light.
9708 E 1766	-Scilla.	38° 15.3' N 15° 42.9' E	Fl.W. period 5s fl. 0.3s, ec. 4.7s	236 72	22	Gray round concrete tower; 20.	Reserve light range 18M.
9716 E 1769	-AVIATION LIGHT, cable tower, ESE. of Torre Cavallo.	38° 14.7' N 15° 41.1' E	F.R.Y. (vert.)	1188 362		White steel framework tower, range bands; 660.	5 clusters of F.R. (vert.) lights arranged vertically along tower.
9720 E 1770	-Punta Pezzo.	38° 13.8' N 15° 38.3' E	Fl.(3)R. period 15s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 9.8s	85 26	15	Red and white banded tower; 75.	Visible 010°-246°. Reserve light range 13M. Fl.Y. 18M shown only if the straits are closed due to failure or repairs to the overhead power cable. Reserve light (Fl.Y.) range 15M.
9724 E 1772	-Villa San Giovanni, mole, head.	38° 13.0' N 15° 37.9' E	Fl.G. period 3s fl. 1s, ec. 2s	45 14	8	Green tower; 33.	
9728 E 1773	--Molo Sottoflutto, head.	38° 13.1' N 15° 38.1' E	Fl.R. period 3s fl. 1s, ec. 2s	23 7	7	Red post; 14.	
9732 E 1773.6	--Ferryboat, mole, head.	38° 13.3' N 15° 38.0' E	3 F.G. (vert.)	39 12	4	Green post.	
9736 E 1776	-Reggio di Calabria, breakwater, head.	38° 07.6' N 15° 39.0' E	Iso.G. period 2s	46 14	8	Green metal column; 33.	
9740 E 1777	-Molo di Sottoflutto, head.	38° 07.5' N 15° 39.2' E	Iso.R. period 2s	36 11	8	Red tower; 23.	
9744 E 1780	-Capo dell'Armi.	37° 57.2' N 15° 40.9' E	Fl.(2)W. period 10s fl. 0.3s, ec. 1.9s fl. 0.3s, ec. 7.5s	312 95	22	White octagonal tower on white two-story dwelling; 39.	Visible 295°-148°. Reserve light range 18M.
9748 E 1780.5	Saline de Montebello.	37° 56.0' N 15° 43.0' E	Fl.G. period 4s fl. 1s, ec. 3s	23 7	4	Green post; 16.	
9752 E 1780.6	-Inner mole, head.	37° 56.0' N 15° 43.0' E	Fl.R. period 4s fl. 1s, ec. 3s	23 7	4	Red mast.	
9756 E 1780.7	-Pier, head.	37° 56.0' N 15° 43.0' E	F.R.G. (vert.)		1	Red post, green band; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ITALY-WEST COAST AND ADJACENT ISLANDS							
9760 <i>E 1780.8</i>	-Sea water intake platform.	37° 56.0' N 15° 43.0' E	Fl.Y. period 3s fl. 0.5s, ec. 2.5s	23 7	2	Yellow mast; 19.	
9764 <i>E 1781</i>	-Saline Joniche, pier "2".	37° 56.0' N 15° 44.0' E	2 F.R. (vert.)	36 11	3	Red pole; 16.	
SICILIA (SICILY) AND ADJACENT ISLANDS (I.)							
PORTO DE MESSINA:							
9766 <i>E 1813</i>	-Marina del Nettuno.	38° 12.0' N 15° 33.6' E	Fl.R. period 3s fl. 1s, ec. 2s	10 3	3	Red mast.	
9768 <i>E 1814</i>	-Punta San Raineri.	38° 11.6' N 15° 34.4' E	Fl.(3)W. period 15s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 8.8s	136 41	22	Gray square tower, octagonal turret, black and white bands; 139.	Reserve light range 17M.
9772 <i>E 1816</i>	-Punta Secca, NE. corner of peninsula.	38° 11.7' N 15° 34.4' E	Oc.Y. period 3s lt. 2s, ec. 1s	43 13	10	Yellow structure; 39.	Visible 097°-335°.
9776 <i>E 1817</i>	-Punta San Salvatore, side of entrance.	38° 11.8' N 15° 33.7' E	Fl.(2)R. period 5s fl. 1s, ec. 1s fl. 1s, ec. 2s	52 16	8	Red iron framework structure; 39.	Visible 340°-250°.
9780 <i>E 1818</i>	-Port Office.	38° 11.8' N 15° 33.5' E	Fl.(2)G. period 5s fl. 1s, ec. 1s fl. 1s, ec. 2s	52 16	8	Green skeleton structure; 39.	F.G. and F.R. lights are shown from the heads of the westernmost and easternmost jetties of the ferry slips, respectively. Jetty heads between the above are marked by vertically disposed R. and G. lights.
9784 <i>E 1806</i>	Capo Peloro.	38° 16.0' N 15° 39.1' E	Fl.(2)G. period 10s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 7.3s	121 37	19	White octagonal tower, black bands, white dwelling; 121.	Visible 112°30'-069°. Reserve light range 13M.
			Oc.R. period 5s lt. 4s, ec. 1s	72 22	9		Visible shore-127° over Rascolmo Bank.
	RACON		M(- -) period 30s		10		
9785 <i>E 1810</i>	-Mortelle Range, front.	38° 16.0' N 15° 37.0' E	Fl.(2)Y. period 4s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s		2	SPECIAL Y, topmark, letter "G".	Marks E. limit of prohibited area.
9785.1 <i>E 1810.1</i>	--Rear, 30 meters 256° from front.	38° 17.0' N 15° 36.0' E	Fl.(2)Y. period 4s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s		2	SPECIAL Y, topmark, letter "G".	
9786 <i>E 1810.2</i>	-Casabianca Range, front.	38° 17.0' N 15° 36.0' E	Fl.(2)Y. period 4s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s		2	SPECIAL Y, topmark, letter "G".	Marks W. limit of prohibited area.
9786.1 <i>E 1810.21</i>	--Rear, 30 meters 232° from front.	38° 16.7' N 15° 35.6' E	Fl.(2)Y. period 4s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s		2	SPECIAL Y, topmark.	
9788 <i>E 1809</i>	-AVIATION LIGHT, cable tower, S. of Capo Peloro.	38° 15.9' N 15° 39.1' E	F.G.Y. (vert.)	764 233		Steel framework tower, orange bands; 689.	5 clusters of F.R. (vert.) lights arranged vertically along tower.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SICILIA (SICILY) AND ADJACENT ISLANDS (I.)							
9792 <i>E 2046</i>	Capo Rasocolmo.	38° 17.7' N 15° 31.2' E	Fl.(3)W. period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	279 85	15	Lantern on white masonry dwelling; 43.	Obscured 255°-shore. Reserve light range 9M.
9796 <i>E 2042</i>	Capo di Milazzo.	38° 16.1' N 15° 13.9' E	L.FI.W. period 6s fl. 2s, ec. 4s	295 90	16	White round tower; 34.	Reserve light range 12M.
9800 <i>E 2044</i>	Milazzo, N. mole, head.	38° 13.0' N 15° 14.8' E	L.FI.G. period 5s fl. 2s, ec. 3s	40 12	8	Green iron post; 20.	
9804 <i>E 2045.4</i>	-Milazzo, harbor platform.	38° 12.5' N 15° 16.9' E	Fl.Y. period 3s fl. 0.5s, ec. 2.5s	30 9	3	Mast.	
9808 <i>E 2044.2</i>	-S. mole, head.	38° 12.8' N 15° 14.8' E	L.FI.R. period 5s fl. 2s, ec. 3s	39 12	8	Red iron post; 16.	
9812 <i>E 2044.4</i>	-Pontile Etoile, head.	38° 13.0' N 15° 14.5' E	2 F.R.G. (vert.)	23 7 20 6	3	Green post, red stripes; 12.	Private. 2 F.R. (vert.) shown on pier 80 meters SSE.
9816 <i>E 2045</i>	-Oil Pier No. "1", head.	38° 12.8' N 15° 15.8' E	2 F.G. (vert.)	54 16 45 14	5	Green pile.	2 F.G.R. (vert.) 5M shown from Pier No. 2, close E. Private.
9820 <i>E 2045.3</i>	-Pier, head.	38° 12.6' N 15° 16.6' E	2 F.R. (vert.)	39 12 33 10	5	Red pile on pylon.	Private.
9822 <i>E 2045.7</i>	-N. of Giammoro, Marine Farm.	38° 12.9' N 15° 18.9' E	Fl.Y. period 6s		3	Y, articulated beacon, topmark.	
ISOLE EOLIE:							
9824 <i>E 1786</i>	-Isola Vulcano, Punta dei Porci, island, S. head.	38° 22.0' N 14° 59.5' E	Fl.(4)W. period 20s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 10s	115 35	16	White tower on two-story building; 102.	Visible 251°-093°. Reserve light range 12M.
9825 <i>E 1786.3</i>	--Punta Nere.	38° 24.7' N 14° 58.1' E	Fl.Y. period 3s fl. 0.5s, ec. 2.5s	33 10	3	Tower; 13.	Visible 176°-285°.
9826	--Port Levanto, pier, head.	38° 25.0' N 14° 58.0' E	2 F.G. (vert.)	23 7	3	Green pole; 16.	Private light.
-Isola Lipari:							
9828 <i>E 1788</i>	--Lipari Anchorage, head of Pignatoro Mole.	38° 29.5' N 14° 57.9' E	Fl.G. period 3s fl. 1s, ec. 2s	36 11	8	Green hut; 20.	
9830 <i>E 1792.7</i>	--Pontile traghetti.	38° 29.3' N 14° 57.9' E	F.G.	20 6	7	Green post; 16.	
9832 <i>E 1790</i>	--Punta Scaliddi.	38° 28.1' N 14° 57.5' E	Fl.R. period 3s fl. 1s, ec. 2s	26 8	4	Red mast; 20.	F.R.G. (vert.) 4M marks head of jetty 290 meters NNW.
9836 <i>E 1792</i>	-- Marina Corta.	38° 27.7' N 14° 57.5' E	Fl.(3)W. period 15s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 8s	36 11	15	Round stone tower; 8.	Reserve light range; 11M.
9838 <i>E 1793</i>	--Porticello.	38° 30.9' N 14° 57.6' E	2 F.R. (vert.)	23 7 20 6	3	White mast, red bands; 24.	

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SICILIA (SICILY) AND ADJACENT ISLANDS (I.)							
9840 <i>E 1800</i>	-Isola Panarea, on Punta Peppemaria.	38° 38.2' N 15° 04.7' E	Fl.W.R. period 5s fl. 1s, ec. 4s	49 15	W. 10 R. 8	White tower; 23.	R. 319°-343°, W.-319°.
9844 <i>E 1802</i>	-Isola Stromboli, Isolott Strombolicchio, summit.	38° 49.0' N 15° 15.2' E	Fl.(3)W. period 15s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 8s	189 58	11	White round tower; 26.	
9846 <i>E 1785</i>	-Isola Filicudi.	38° 35.0' N 14° 32.7' E	Fl.(5)W. period 15s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 6s	66 20	W. 12	Post; 20.	Visible 317°-090°, 095°-255°.
9847 <i>E 1784</i>	-Isola Alicudi.	38° 32.0' N 14° 21.7' E	Fl.W. period 3s fl. 1s, ec. 2s	33 10	10	White post on hut.	
-Isola Salina:							
9848 <i>E 1798</i>	-- Capo Faro (Salina).	38° 34.8' N 14° 52.2' E	L.Fl.W. period 6s fl. 2s, ec. 4s	184 56	18	Tower with building; 39.	Visible 123°-357°, light faint 123°-137°.
9852 <i>E 1796</i>	--Punta Lingua.	38° 32.2' N 14° 52.3' E	Fl.W. period 3s fl. 1s, ec. 2s	43 13	11	White tower on building; 38.	Visible 186°-076°.
9856 <i>E 2038</i>	Capo d'Orlando.	38° 10.0' N 14° 45.2' E	L.Fl.(2)W. period 12s fl. 2s, ec. 2s fl. 2s, ec. 6s	89 27	16	Octagonal tower on one-story dwelling; 35.	Reserve light range 12M.
9860 <i>E 2036</i>	Capo Cefalu.	38° 02.3' N 14° 02.1' E	Fl.W. period 5s fl. 0.2s, ec. 4.8s	262 80	25	White octagonal tower on house; 85.	Reserve light range 18M.
9864 <i>E 2037.4</i>	Pier, head.	38° 02.0' N 14° 02.0' E	F.R.G. (vert.)		3		Private light.
TERMINI IMERESE:							
9868 <i>E 2035</i>	-Pontile della Societa Tifeo.	37° 59.2' N 13° 45.2' E	Q.R.	66 20	4	White post.	Private light.
9870 <i>E 2035.2</i>	Water intake.	37° 58.6' N 13° 45.2' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	33 10	3	Post, red and white bands.	Private light.
9876 <i>E 2030</i>	-Inner mole.	37° 59.2' N 13° 32.5' E	Fl.R. period 3s fl. 1s, ec. 2s	23 7	5	Red post; 16.	
9892 <i>E 2025</i>	Punta Porticello, outer breakwater, head.	38° 05.1' N 13° 32.6' E	Fl.G. period 3s fl. 1s, ec. 2s	20 6	5	Pillar on hut; 15.	Maintained by local government.
9896 <i>E 2026</i>	-Transverse mole, head.	38° 05.2' N 13° 32.5' E	Fl.R. period 3s fl. 1s, ec. 2s	33 10	4	Red metal framework tower; 20.	
9900 <i>E 2023</i>	Capo Zafferano.	38° 06.6' N 13° 32.5' E	Fl.(3)W.R. period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	111 34	W. 16 R. 12	White octagonal tower, house; 36.	W. 105°-298°, R.-344°, W.-355°. Reserve light range 12M (W.), 9M (R.).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SICILIA (SICILY) AND ADJACENT ISLANDS (I.)							
PALERMO:							
9908 <i>E 2008</i>	-Diga Foranea.	38° 07.5' N 13° 22.6' E	Fl.(4)W. period 15s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 8s	49 15	15	White round tower; 36.	
	-RACON		P(•--•) period 30s		10		
9910 <i>E 2013</i>	--Head.	38° 07.3' N 13° 22.8' E	L.Fl.G. period 5s fl. 2s, ec. 3s	39 12	5		
9912 <i>E 2014</i>	-S. mole, head.	38° 07.5' N 13° 22.4' E	L.Fl.R. period 5s fl. 2s, ec. 3s	31 9	8	Red tower; 19.	
9914 <i>E 2010</i>	-Industrial Port, breakwater, head.	38° 07.9' N 13° 22.7' E	F.G.				
9916 <i>E 2019</i>	-Pontile Vittorio Veneto, head.	38° 07.5' N 13° 22.2' E	2 F.G. (vert.)	26 8 23 7	3	Mast; 20.	Locally maintained.
9917 <i>E 2011</i>	Aquasanta, outer mole, head.	38° 08.6' N 13° 22.4' E	2 F.G. (vert.)	36 11	3	Green mast; 30.	
9917.5 <i>E 2012</i>	-Inner mole, head.	38° 08.6' N 13° 22.3' E	2 F.R. (vert.)	36 11	3	Red mast; 16.	
9924 <i>E 2005</i>	Mondello Valdesi, mole, head.	38° 11.8' N 13° 20.2' E	2 F.R. (vert.)	24 7 20 6	3	Red mast; 16.	2 F.G. (vert.) on mole 0.6 miles NNW.
9936 <i>E 2004</i>	Capo Gallo.	38° 13.3' N 13° 19.1' E	L.Fl.(2)W. period 15s fl. 2s, ec. 3s fl. 2s, ec. 8s	131 40	16	White round tower and house; 25.	Visible 077°-297°. Reserve light range 13M.
9940 <i>E 1994</i>	Punta Raisi, AVIATION LIGHT.	38° 11.4' N 13° 06.4' E	Al.Fl.W.G.		35	Metal framework tower on red and white checkered control tower.	Occasional.
9944	-925 meters SW. of Punta Raisi.	0° 00.0' 0° 00.0'	Q.R. period 1s fl. 0.5s, ec. 0.5s	23 7	4	Airport landing stage.	Structure also shows white Aviation Light.
9948 <i>E 1994.2</i>	-AVIATION LIGHT, near point.	38° 11.1' N 13° 06.1' E	Mo.(Q)G. period 8s		12		
9952	Terrasini, E. mole, head.	38° 09.0' N 13° 04.6' E	2 F.R. (vert.)		1		
ISOLA D'USTICA:							
9956 <i>E 1996</i>	-Punta Omo-Morto.	38° 42.7' N 13° 11.8' E	Fl.(3)W. period 15s fl. 0.1s, ec. 2.9s fl. 0.1s, ec. 2.9s fl. 0.1s, ec. 8.9s	328 100	25	White tower, house; 33.	Visible 087°-356°. Reserve light range 18M.
			Oc.R. period 5s lt. 4s, ec. 1s	312 95	9		Visible 135°-145° over Secca Colombara.
9960 <i>E 1997</i>	-Cala Santa Maria, mole, head.	38° 42.4' N 13° 11.9' E	2 F.R. (vert.)	31 9 26 8	3	Red mast; 13.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SICILIA (SICILY) AND ADJACENT ISLANDS (I.)							
9964 <i>E 2000</i>	-Punta Gavazzi.	38° 41.6' N 13° 09.4' E	Fl.(4)W. period 12s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	131 40	16	White tower, house; 92.	Visible 297°-194°.
9968 <i>E 1992</i>	Castellammare del Golfo, N. side of town.	38° 01.9' N 12° 52.8' E	Fl.(2)W. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	62 19	10	White quadrangular hut; 13.	Visible 263°-093°.
9972 <i>E 1993.5</i>	Terrasini, outer mole, head.	38° 09.4' N 13° 04.6' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	23 7	4	White mast, black bands; 13.	Maintained by local community.
9976 <i>E 1993.6</i>	Inner mole, head.	38° 09.4' N 13° 04.6' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	23 7	4	White mast, red bands; 4.	Maintained by local community.
9980 <i>E 1993</i>	-N. mole, head.	38° 02.0' N 12° 52.9' E	Fl.G. period 8s fl. 1s, ec. 7s	19 6	3	White metal column, black bands; 16.	
9984 <i>E 1990</i>	Punta Solanto, close N. of Torre dell'Usciare.	38° 10.4' N 12° 46.1' E	Fl.W.R. period 3s fl. 1s, ec. 2s	82 25	W. 10 R. 8	White quadrangular hut; 18.	R. 122°-144°, W.-122°.
9988 <i>E 1986</i>	Capo San Vito.	38° 11.2' N 12° 43.9' E	Fl.W. period 5s fl. 0.2s, ec. 4.8s	148 45	25	White round tower in front of house; 131.	Visible 036°-000°. Reserve light range 18M. Radiobeacon.
			Iso.R. period 4s	41 12	6	Same tower.	Visible 165°-225°.
9992 <i>E 1987</i>	-Breakwater, head.	38° 10.7' N 12° 44.0' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	23 7	5	Green mast; 16.	
9996 <i>E 1988</i>	-Head of lee breakwater.	38° 10.7' N 12° 44.0' E	2 F.R. (vert.)	31 9 23 7	3	Red mast; 19.	
ISOLE EGADI:							
10000 <i>E 1962</i>	-Isola de Levanzo, Capo Grosso, island, N. head.	38° 01.1' N 12° 19.9' E	Fl.(3)W. period 15s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 8s	223 68	11	White round tower, and dwelling; 39.	Visible 032°-331°. Reserve light range 10M.
-Isola Marettimo:							
10004 <i>E 1956</i>	--Punta Libeccio.	37° 57.2' N 12° 03.1' E	Fl.(2)W. period 15s fl. 0.2s, ec. 3.6s fl. 0.2s, ec. 11s	240 73	18	White octagonal tower on 2-story white dwelling black bands, "Punta Libeccio" in black; 80.	Visible 298°-151°.
10008 <i>E 1960</i>	--Punta San Simone, E. side of island.	37° 57.9' N 12° 04.6' E	F.G.	23 7	3	Green iron column on masonry hut; 13.	
10012 <i>E 1958</i>	---Landing pier, head.	37° 58.1' N 12° 04.4' E	F.R.	26 8	3	Red post; 23.	
10016 <i>E 1948</i>	--Punta Marsala.	37° 54.3' N 12° 22.0' E	Fl.(4)W. period 15s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	65 20	15	White round tower in front of dwelling; 48.	Visible 202°-095°. Reserve light range 11M.
10018 <i>E 1947.5</i>	--Punta Scario Beacon.	37° 54.2' N 12° 24.3' E	Q.(9)W. period 15s	16 5	5	W. CARDINAL YBY, articulated beacon, topmark.	Radar reflector.
10020 <i>E 1952</i>	--Punta Sottile.	37° 56.0' N 12° 16.4' E	Fl.W. period 8s fl. 0.3s, ec. 7.7s	141 43	25	White round tower, dwelling; 126.	Visible 316°-237°. Aeromarine light. Reserve light range 18M.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SICILIA (SICILY) AND ADJACENT ISLANDS (I.)							
10024 <i>E 1949</i>	--Favignana, outer mole, head.	37° 55.9' N 12° 20.8' E	FL.R. period 4s fl. 0.5s, ec. 3.5s	23 7	7	Red column on pedestal.	
10028 <i>E 1950</i>	---Inner mole, head.	37° 55.8' N 12° 19.6' E	F.G., F.R. (vert.)	23 7 19 6	R. 4	Post, red and green bands; 20.	
10032 <i>E 1966</i>	Isolotto Formica, on the castle.	37° 59.3' N 12° 25.3' E	FL.W. period 4s fl. 1s, ec. 3s	92 28	11	Castle, white round tower; 66.	
10036 <i>E 1968</i>	Scogli Porcelli, in approach to Trapani.	38° 02.6' N 12° 26.4' E	FL.(2)W. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	75 23	11	Round masonry tower; 82.	
10040 <i>E 1982</i>	Isolotto Asinelli, in approach to Trapani.	38° 03.8' N 12° 31.9' E	FL.(2)W. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	43 13	7	ISOLATED DANGER BRB, tower, topmark; 36.	
10044 <i>E 1970</i>	-Scoglio Palumbo, N. side of entrance.	38° 00.9' N 12° 29.2' E	FL.W. period 5s fl. 1s, ec. 4s	54 16	12	White round tower on octagonal one-story dwelling; 42.	
			Iso.R. period 2s	30 9	8		Visible 131°-176°.
10048 <i>E 1976</i>	-Molo della Columbaia, head.	38° 00.5' N 12° 29.9' E	FL.R. period 3s fl. 0.5s, ec. 2.5s	30 9	8	Red column on pedestal; 16.	
10052 <i>E 1978</i>	-Molo del Ronciglio, head.	38° 00.6' N 12° 30.4' E	FL.G. period 3s fl. 0.5s, ec. 2.5s	33 10	8	Green column on hut; 31.	
10060 <i>E 1979.2</i>	-Detached breakwater, E. head.	38° 00.7' N 12° 30.1' E	FL.R. period 6s fl. 1s, ec. 5s	23 7	4	Red column on pedestal; 19.	Visible 073°-023°.
MARSALA:							
10064 <i>E 1940</i>	-W. mole, inner head.	37° 47.2' N 12° 26.3' E	FL.(2)W. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	62 19	15	White round tower, dwelling; 62.	Reserve light range 12M.
10068 <i>E 1942</i>	-W. mole, outer head.	37° 46.9' N 12° 26.2' E	FL.R. period 3s fl. 1s, ec. 2s	36 11	8	Lamppost, red and white bands; 21.	
10072 <i>E 1944</i>	-E. mole, head.	37° 47.1' N 12° 26.4' E	FL.G. period 3s fl. 1s, ec. 2s	30 9	8	Green column on pedestal; 21.	
10076 <i>E 1938</i>	Capo Feto.	37° 39.6' N 12° 31.8' E	L.FI.W. period 10s fl. 2s, ec. 8s	46 14	11	White tower, black bands on building; 33.	
10078 <i>E 1938.3</i>	-Gas pipeline beacon.	37° 39.5' N 12° 32.3' E	FL.(3)Y. period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	26 8	4	SPECIAL Y, stake, topmark.	Marks gas pipeline.
10080 <i>E 1932</i>	-W. mole, head.	37° 38.6' N 12° 35.0' E	FL.R. period 4s	43 13	5	Red metal column on on hut; 16.	
10082 <i>E 1932.5</i>	--SE. corner.	37° 38.8' N 12° 34.9' E	2 F.R. (vert.)	33 10	3	Red mast; 16.	
10084 <i>E 1933</i>	-E. mole, head.	37° 38.7' N 12° 35.0' E	FL.G. period 4s fl. 1s, ec. 3s	43 13	8	Green metal column on hut; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SICILIA (SICILY) AND ADJACENT ISLANDS (I.)							
10092 <i>E 1930</i>	Capo Granitola.	37° 33.8' N 12° 40.1' E	L.FI.W. period 10s fl. 3s, ec. 7s	123 37	18	White round tower, balcony; 114.	Reserve light range 13M.
10094 <i>E 1928.5</i>	Capo San Marco.	37° 29.9' N 13° 01.2' E	FI.(3)W. period 15s fl. 0.2s, ec. 3.7s fl. 0.2s, ec. 3.7s fl. 0.2s, ec. 7s	82 25	18	White tower on house; 36.	Reserve light range 18M.
10095 <i>E 1928.7</i>	-Capo San Marco, NW.	37° 32.0' N 12° 57.0' E	FI.Y. period 5s fl. 1s, ec. 4s	16 5	6	SPECIAL Y, beacon, topmark.	
SCIACCA:							
10096 <i>E 1926</i>	-Molo di Levante, old head.	37° 30.1' N 13° 04.9' E	2 F.G. (vert.)	26 8 23 7	2	Green post; 10.	Visible inside the harbor only.
10100 <i>E 1926.2</i>	--Head.	37° 30.0' N 13° 04.8' E	2 F.G. (vert.)	19 6 13 4	2	Green metal column.	Visible inside the harbor only.
10104 <i>E 1927</i>	-Molo di Ponete, about 7 meters from head.	37° 30.0' N 13° 04.8' E	L.FI.R. period 6s fl. 2s, ec. 4s	30 9	8	Red and white banded lamppost; 20.	Vessels should pass not closer than 40 meters.
10108 <i>E 1928</i>	-Diga di Levante.	37° 29.9' N 13° 04.7' E	L.FI.G. period 6s fl. 2s, ec. 4s	36 11	8	White metal pillar on pedestal; 36.	
10112 <i>E 1922</i>	Capo Rosello.	37° 17.6' N 13° 27.1' E	FI.(2)W. period 10s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 7.3s	312 95	18	White round tower; 33.	Reserve light range 18M.
PORTO EMPEDOCLE:							
10116 <i>E 1918</i>	-E. mole, head.	37° 16.7' N 13° 31.8' E	FI.G. period 3s fl. 1s, ec. 2s	30 9	8	Green framework on tower; 24.	
10120 <i>E 1916</i>	-W. mole, head.	37° 16.4' N 13° 31.7' E	FI.R. period 3s fl. 1s, ec. 2s	39 12	8	Red column on lamppost; 20.	4 F.R. lights are shown from each of 2 chimneys, 269 feet high, about 275 yards west of root of W. mole.
10124 <i>E 1920</i>	-Molo Francesco Crispi, W. side of old port.	37° 17.0' N 13° 31.9' E	2 F.R. (vert.)	19 6 15 5	3	Red post; 13.	Visible 172°-050°.
10126 <i>E 1914</i>	-Breakwater, head, close E. of port.	37° 16.9' N 13° 32.3' E	Q.(6)+L.FI.W. period 15s	23 7	5	S. CARDINAL YB, beacon, topmark; 16.	
LICATA:							
10128 <i>E 1904</i>	-Mole di Levante.	37° 05.7' N 13° 56.6' E	FI.W. period 5s fl. 0.3s, ec. 4.7s	131 40	21	White round tower; 123.	Obscured 095°-shore. Reserve light range 18M.
10132 <i>E 1908</i>	-Diga di Levante, head.	37° 05.2' N 13° 56.7' E	FI.G. period 5s fl. 1s, ec. 4s	33 10	7	Green round tower; 26.	
10136 <i>E 1906</i>	--E. head.	37° 05.3' N 13° 56.3' E	FI.R. period 5s fl. 1s, ec. 4s	36 11	8	Red tower; 36.	

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SICILIA (SICILY) AND ADJACENT ISLANDS (I.)							
10137 <i>E 1907</i>	-Darsena Marianello entrance, W.	37° 05.5' N 13° 56.0' E	2 F.R. (vert.)	20 6	3	Red mast; 16.	
				13 4			
10138 <i>E 1912.5</i>	--E head.	37° 05.5' N 13° 56.1' E	2 F.G. (vert.)	20 6	3	Green mast; 16.	
				13 4			
10140 <i>E 1912</i>	-Molo di Ponente, head.	37° 05.5' N 13° 56.2' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	41 12	4	Red column on pedestal; 18.	Visible 160°-325°.
10144 <i>E 1905</i>	-Molo di Levante, head.	37° 05.5' N 13° 56.3' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	39 12	4	Green lamppost; 16.	
GELA:							
10152 <i>E 1902</i>	-Porto Refugio, Molo di Levante, head.	37° 03.7' N 14° 14.0' E	Fl.G. period 3s fl. 1s, ec. 2s	26 8	8	Green column, on pedestal; 18.	
10156 <i>E 1902.2</i>	--Molo di Ponente, head.	37° 03.7' N 14° 13.8' E	Fl.R. period 3s fl. 1s, ec. 2s	26 8	8	Red column, on pedestal; 18.	
10160 <i>E 1900.6</i>	-Jetty, head.	37° 02.5' N 14° 15.6' E	2 F.R. (vert.)	32 10 29 9	3	Red mast; 16.	
10164 <i>E 1900.4</i>	-Porto Isola, pier, head.	37° 01.8' N 14° 15.2' E	F.R., F.G. (vert.)	75 23 70 21	R. 3 G. 3	Post, red and black bands.	
10168 <i>E 1900.2</i>	--Breakwater, W. head.	37° 02.0' N 14° 14.8' E	Oc.G. period 4s lt. 3s, ec. 1s	40 12	3	Green mast on sentry box; 17.	
10172 <i>E 1900</i>	--Breakwater, E. head.	37° 01.7' N 14° 15.5' E	Oc.R. period 4s lt. 3s, ec. 1s	40 12	3	Red mast on sentry box; 17.	
10180 <i>E 1898</i>	Scoglitti.	36° 53.2' N 14° 26.4' E	Fl.(3)W. period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	49 15	10	White stone tower on building; 43.	
10184 <i>E 1896</i>	Scaramia.	36° 47.1' N 14° 30.0' E	Fl.(2)W. period 8s fl. 1.5s, ec. 1s fl. 1.5s, ec. 4s	121 37	16	White round tower; 113.	Reserve light range 12M.
10188 <i>E 1894</i>	Marina de Ragusa (Mazzarelle), on beach.	36° 46.8' N 14° 33.9' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	40 12	8	Square tower on bright yellow building; 39.	
10190 <i>E 7120</i>	Platform VEGA.	36° 32.3' N 14° 37.5' E	4 Mo.(U)W. period 15s	62 19	W. 10	Platform; 226.	Aero Obstruction lights 10 F.R. 3M. Nautophone: Mo.(U) ev. 30s.
			3 Mo.(U)R. period 15s	98 30 197 60	R. 5		
	RACON		V(••••) period 30s		10		
10192 <i>E 1892</i>	Donnalucata, jetty, head.	36° 45.0' N 14° 38.0' E	2 F.G. (vert.)	23 7	3	Green pole; 16.	Maintained by local community.

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SICILIA (SICILY) AND ADJACENT ISLANDS (I.)							
10196 <i>E 1890</i>	Pozzallo, on beach.	36° 44.0' N 14° 51.0' E	Fl.(4)W. period 12s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	39 12	11	White round tower, red median stripe, attached to one-story dwelling; 34.	Reserve light range 9M.
10200 <i>E 1891</i>	-Refuge harbor, W. mole, head.	36° 43.0' N 14° 50.0' E	F.R.	26 8	3	Red mast.	Maintained by local community.
10208 <i>E 1888</i>	Scogli Porri, on largest rock.	36° 40.9' N 14° 56.5' E	Fl.(2)W. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	34 10	11	Black and red banded framework tower on masonry hut; 26.	
10212 <i>E 1886</i>	Isola delle Correnti, S. point.	36° 38.3' N 15° 05.6' E	Fl.W. period 4s fl. 1s, ec. 3s	46 14	11	Tower on dwelling; 36.	
10216 <i>E 1885</i>	Porto Palo, mole, head.	36° 41.0' N 15° 09.0' E	Fl.G. period 3s fl. 1s, ec. 2s	19 6	3	Green column; 15.	Maintained by local government.
10220 <i>E 1885.4</i>	-Platform, about 82 meters off oil pier, head.	36° 40.2' N 15° 07.5' E	Q.Y.	40 12	3	Post, red and black bands; 16.	
10224 <i>E 1882</i>	Cozzo Spadaro.	36° 40.9' N 15° 08.7' E	Fl.(3)W. period 15s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 8.8s	270 82	24	White octagonal tower on square house; 120.	Visible 170°-095°. Reserve light range 18M. Radiobeacon.
10228 <i>E 1884</i>	Capo Passero.	36° 41.0' N 15° 09.0' E	Fl.(2)W. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	128 39	11	White round tower on NE. angle of fort; 63.	Visible 151°-063°.
10230 <i>E 1880</i>	ACQUA AZZURA, LIGHTSHIP.	36° 42.9' N 15° 09.2' E	F.R.				F.W. on bow and stern. Vessel 50 meters in length. Private.
10232 <i>E 1879</i>	Marzamemi, mole, head.	36° 43.7' N 15° 08.0' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	34 10	3	Red metal column; 20.	2 F.R.W. (vert.) are shown from N. breakwater.
10236 <i>E 1878</i>	-N. breakwater, head.	36° 43.0' N 15° 08.0' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	26 8	4	Green metal column; 16.	
10240 <i>E 1876</i>	Capo Murro di Porco.	37° 00.0' N 15° 20.7' E	Fl.W. period 5s fl. 1s, ec. 4s	112 34	17	White tower, dwelling; 66.	Visible 160°-090°. Reserve light range 10M.
SIRACUSA:							
10244 <i>E 1867</i>	-Punta Castelluccio, S. side of entrance.	37° 02.5' N 15° 18.3' E	Fl.R. period 3s fl. 1s, ec. 2s	69 21	9	Turret on white building, red bands; 28.	
10248 <i>E 1866</i>	-Castello Maniace, N. side of entrance.	37° 03.1' N 15° 17.8' E	Fl.G. period 3s fl. 1s, ec. 2s	90 27	9	Green tower on building; 23.	Visible 188°-330°.
10252 <i>E 1868</i>	-Entrance Range, front, Caderini, W. shore of Porto Grande.	37° 02.8' N 15° 16.5' E	Iso.R. period 2s	39 12	17	Masonry tower, red and white checkered dwelling; 28.	Visible 224°-274°. Reserve light range 12M.
10256 <i>E 1868.1</i>	-- Carroziere , rear, about 969 meters 267°12' from front.	37° 02.0' N 15° 15.0' E	Oc.W. period 5s lt. 4s, ec. 1s	82 25	17	Masonry tower, red and white checkered dwelling; 49.	Visible 261°-272°. Reserve light range 10M.
10260 <i>E 1870</i>	-La Darsena entrance, S. side.	37° 02.0' N 15° 15.0' E	F.G.	18 5	3	White and black banded post; 10.	
10268 <i>E 1864</i>	-Porto Marmorea, N. breakwater, head.	37° 04.0' N 15° 17.7' E	2 F.G. (vert.)	26 8	3	Green post on hut; 16.	
10272 <i>E 1865</i>	--S. breakwater, head.	37° 04.0' N 15° 17.7' E	2 F.R. (vert.)	26 8	3	Red post on hut; 16.	

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SICILIA (SICILY) AND ADJACENT ISLANDS (I.)							
10276 <i>E 1862</i>	Baia dis Panagia, pier, head.	37° 07.0' N 15° 16.0' E	F.G., F.R. (vert.)		5	Support, black and white stripes.	Private light.
10280 <i>E 1862.4</i>	-Pier, head.	37° 07.0' N 15° 16.0' E	F.G.		2	Black and white banded pole; 16.	Private light.
10282 <i>E 1861.8</i>	-Dockyard pier, head.	37° 06.8' N 15° 15.2' E	Q.R.	23 7	4	Metal pile on sea wall.	Private light.
10284 <i>E 1862.5</i>	-"A1" Range, front.	37° 06.0' N 15° 15.0' E	Q.G.	42 13	4	Green post.	Visible 211°-244°.
10288 <i>E 1862.51</i>	---Rear, 229° 340 meters from front.	37° 06.4' N 15° 15.2' E	Oc.G. period 3s lt. 2s, ec. 1s	65 20	4	Green post.	Visible 206°-239°.
10292 <i>E 1862.59</i>	-"A2" Range, front.	37° 06.3' N 15° 15.7' E	Q.R.	43 13	3	Red post.	Visible 214°-247°. Private light.
10296 <i>E 1862.6</i>	--Common rear, 340 meters 229° from A2 front, 380 meters 345° from A3 front.	37° 06.2' N 15° 15.6' E	Oc.R. period 3s lt. 2s, ec. 1s	65 20	4	Red post.	Visible 219°-252°.
10300 <i>E 1862.61</i>	-A3, front.	37° 06.4' N 15° 15.7' E	Q.W.	42 13	5	White post.	Visible 218°-251°.
10304 <i>E 1862.8</i>	--Beacon.	37° 07.0' N 15° 16.0' E	Fl.Y. period 3s fl. 0.5s, ec. 2.5s	10 3	4	Yellow beacon.	
10304.5 <i>E 1862.9</i>	-Terminal.	37° 06.6' N 15° 15.5' E	Fl.Y. period 5s fl. 1s, ec. 4s	20 6	3	SPECIAL Y, articulated beacon, topmark.	
10305 <i>E 1861.5</i>	-Seawater intake.	37° 08.4' N 15° 13.4' E	2 F.R. (vert.)	26 8 20 6	4	Red pile; 16.	Private light.
10306 <i>E 1861</i>	-Pontile Gulf, head.	37° 08.7' N 15° 14.3' E	2 F.G. (vert.)	56 17 53 16	3	Green metal mast on pedestal; 56.	Private light.
10308 <i>E 1860</i>	Pensola Magnisi, N. side, on point.	37° 09.0' N 15° 14.0' E	Fl.(4)W. period 12s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	33 10	11	White and black banded tower, concrete base; 20.	Visible 090°-320°.
10316 <i>E 1859</i>	Seno del Priolo, oil pier, head.	37° 09.8' N 15° 12.7' E	Iso.R. period 2s	33 10	3	Iron post; 20.	
AUGUSTA:							
10320 <i>E 1847</i>	-Diga Settentrionele, off head.	37° 11.8' N 15° 14.0' E	Fl.(2)G. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	39 12	8	STARBOARD (A) G, beacon tower, topmark; 41.	Radar reflector.
	-RACON		G(---) period 30s		10		
10324 <i>E 1848</i>	-Diga Centrale, off N. head.	37° 11.6' N 15° 14.0' E	Fl.(2)R. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	46 14	8	PORT (A) R, beacon tower, topmark; 48.	2 F.R. mark floodlit chimney 3.1 miles WNW. Radar reflector.
10328 <i>E 1846</i>	-Punta Gennalena, entrance Range, front.	37° 11.8' N 15° 11.2' E	Iso.W. period 4s	54 16	12	White building, black and white banded central tower; 29.	Visible 247°-299°. F.R. marks chimney 1.2 miles NW.
10332 <i>E 1846.1</i>	--Dromo Giggia, rear, 3 km. 273°51' from front.	37° 12.0' N 15° 09.2' E	Oc.W. period 5s lt. 3s, ec. 2s	259 79	17	White building, black and white banded central tower; 29.	Visible 245°-301°. Reserve light range 13M.

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SICILIA (SICILY) AND ADJACENT ISLANDS (I.)							
10336 <i>E 1849</i>	-Porticciolo di Terre Vecchie, breakwater, head.	37° 12.9' N 15° 13.5' E	2 F.R. (vert.)	26 8 21 6	3	Red post; 20.	Radiobeacon 310 meters NE.
10337 <i>E 1849.4</i>	-Augusta.	37° 13.1' N 15° 12.9' E	Q.(9)W. period 15s	16 5	5	W. CARDINAL YBY, articulated beacon, topmark.	Radar reflector.
10338 <i>E 1849.6</i>	--Darsena Servizi, W. mole, head.	37° 13.5' N 15° 13.0' E	Fl.G. period 5s fl. 1s, ec. 4s	20 6	4	Green mast; 16.	Fl.R. 5s 4M marks E. mole.
10340 <i>E 1850</i>	-Cala dei Molo, S. side of entrance.	37° 13.8' N 15° 13.1' E	F.G.	21 6	3	Green iron column on white hut; 23.	A F.R. light is located at Porto di Augusta on the Cathedral Belfry.
10344 <i>E 1851</i>	-Pontile Smg Toti, head.	37° 14.1' N 15° 13.0' E	F.R.G. (vert.)	23 7 19 6	3	Red mast, green bands; 20.	
10348 <i>E 1851.3</i>	-Pontile Smg Sauro, head.	37° 14.1' N 15° 12.9' E	F.G.R. (vert.)	23 7 19 6	3	Green mast, red bands; 20.	
10352 <i>E 1852</i>	-Pontile Shell, head.	37° 14.3' N 15° 12.9' E	2 F.G. (vert.)	21 6 16 5	3	Iron pole; 16.	Private light.
10354 <i>E 1852.5</i>	-Commercial Pier, head.	37° 14.1' N 15° 11.8' E	F.G.	20 6	4	Green pile; 16.	Private light.
10355 <i>E 1852.6</i>	-Pontile Ro-Ro, head.	37° 14.1' N 15° 11.7' E	F.R.G.R. (vert.)	26 8	4	Red post, green bands; 20.	Private light.
10356 <i>E 1853</i>	-Punta Cugno, mole, head.	37° 13.7' N 15° 11.6' E	2 F.R. (vert.)	23 7 20 6	3	Red pole; 18.	
10358 <i>E 1853.2</i>	--Beacon.	37° 13.6' N 15° 11.8' E	Q.Y.	13 4	6	SPECIAL Y, topmark.	
10364 <i>E 1854</i>	-Pontile Esso No. "1", 150 meters from head.	37° 12.6' N 15° 11.7' E	F.R.G. (vert.)	29 9 23 7	3	Twin masts; 33.	
10368 <i>E 1855</i>	- -No. "2".	37° 12.4' N 15° 11.7' E	F.R.R.G. (vert.)	26 8 20 6 13 4	3	Yellow mast on platform; 79.	Private light.
10372 <i>E 1855.2</i>	--Water hydrant.	37° 12.6' N 15° 11.1' E	Fl.Y. period 3s fl. 0.5s, ec. 2.5s		3	SPECIAL Y, framework tower, topmark.	Private light.
10376 <i>E 1856</i>	-Cement pier, head.	37° 11.7' N 15° 11.6' E	2 F.G. (vert.)	40 12 36 11	3	Green post; 36.	Private light.
10378 <i>E 1856.5</i>	-Pier, head.	37° 11.5' N 15° 11.4' E	F.R.	23 7	3	Yellow post.	Private light.
10380 <i>E 1857</i>	-Pontile Marina Militare, head.	37° 11.5' N 15° 11.8' E	Fl.G.R. (vert.) period 2s fl. 0.5s, ec. 1.5s	30 9 23 7	3	Green post, red bands; 13.	
10384 <i>E 1857.4</i>	-Supertanker Pier, head.	37° 11.3' N 15° 12.4' E	3 F.G. (vert.)	60 18 56 17 49 15	3	Green post.	Private light.

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SICILIA (SICILY) AND ADJACENT ISLANDS (I.)							
10386 <i>E 1858</i>	-Liquids Pier, head.	37° 10.9' N 15° 12.4' E	F.G.R.G. (vert.)	56 17 53 16 46 14	3	Post; 46.	Private light.
10387 <i>E 1858.1</i>	-Center, head.	37° 10.7' N 15° 12.2' E	F.R.		3	Gray mast.	Private light.
10388 <i>E 1858.2</i>	-Solids Pier, head.	37° 10.5' N 15° 12.4' E	F.R.G.R. (vert.)	59 18 54 16 49 15	3	Post; 46.	Private light.
10389 <i>E 1858.3</i>	-Jetty.	37° 10.4' N 15° 12.4' E	F.R.		3	Gray mast.	Private light.
10390 <i>E 1858.4</i>	-South Passage, E. side.	37° 10.6' N 15° 13.0' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	30 9	5	STARBOARD (A) G, beacon tower, topmark; 33.	Private light.
10391 <i>E 1858.6</i>	--W. side.	37° 10.5' N 15° 12.8' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	30 9	5	PORT (A) R, beacon tower, topmark; 33.	Private light.
10392 <i>E 1838</i>	Capo Santa Croce.	37° 14.5' N 15° 15.5' E	L.Fl.(2)W. period 12s fl. 2s, ec. 2s fl. 2s, ec. 6s	128 39	16	White round tower on dwelling; 89.	Visible 146°-021°. Reserve light range 10M.
10396 <i>E 1836</i>	Brucoli, E. side of entrance.	37° 17.0' N 15° 11.4' E	Fl.W. period 5s fl. 1s, ec. 4s	43 13	11	White tower, red band on building; 16.	Obscured by Capo Campoloto when bearing greater than 230°.
CATANIA:							
10400 <i>E 1828</i>	-Sciara Biscari.	37° 29.2' N 15° 05.2' E	Fl.W. period 5s fl. 0.4s, ec. 4.6s	102 31	22	White round tower on masonry hut; 93.	Reserve light range 18M.
10404 <i>E 1832</i>	-Molo di Mezzogiorno, head.	37° 29.4' N 15° 05.9' E	Fl.R. period 2s fl. 0.5s, ec. 1.5s	36 11	5	Red column on pedestal; 20.	
10408 <i>E 1832.5</i>	--S. head.	37° 29.3' N 15° 05.7' E	L.Fl.R. period 5s fl. 2s, ec. 3s	24 7	5	Red post on platform; 16.	
10420 <i>E 1830</i>	-Molo di Levante, head.	37° 29.1' N 15° 06.0' E	L.Fl.G. period 5s fl. 2s, ec. 3s	39 12	8	Green column; 20.	
10424 <i>E 1831</i>	-Molo di Levante, knuckle.	37° 29.4' N 15° 06.0' E	Fl.G. period 2s fl. 0.5s, ec. 1.5s	37 11	5	Green column on pedestal; 18.	Obscured from 175°-335°.
10428 <i>E 1827</i>	Acicastello, Molo Porticciolo, N. corner.	37° 33.0' N 15° 09.9' E	Fl.R. period 4s fl. 1s, ec. 3s	19 6	3	Red post; 10.	
10432 <i>E 1826</i>	Capo Molini.	37° 34.6' N 15° 10.6' E	Fl.(3)W. period 15s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 8.8s	138 42	22	White hut on square tower; 67.	Reserve light range 18M.
10434 <i>E 1821</i>	Giardini Naxos, mole, head.	37° 49.6' N 15° 16.5' E	Fl.R. period 4s fl. 1s, ec. 3s	16 5	8	Red column.	Private.
RIPOSTO:							
10436 <i>E 1822</i>	-Punta Chiancona.	37° 43.7' N 15° 12.7' E	L.Fl.W. period 5s fl. 2s, ec. 3s	49 15	17	White round tower; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SICILIA (SICILY) AND ADJACENT ISLANDS (I.)							
10440 <i>E 1823</i>	-E. mole, head.	37° 44.0' N 15° 12.7' E	Fl.R. period 3s	36 11	5	Red post.	
10442 <i>E 1824</i>	-W. mole, head.	37° 44.0' N 15° 12.4' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	20 6	4	Green post; 16.	
ISOLE PELAGIE:							
-Isola di Lampedusa:							
10444 <i>E 2088</i>	-- Capo Grecale.	35° 31.0' N 12° 37.9' E	Fl.W. period 5s fl. 0.3s, ec. 4.7s	269 82	22	White octagonal tower, dwelling; 62.	Visible 112°-075°. Reserve light range 18M.
10448 <i>E 2089</i>	--Lampedusa, on Punta Maccaferri, E. side entrance to port.	35° 29.6' N 12° 36.2' E	Fl.G. period 3s fl. 1s, ec. 2s	57 17	8	Green column on pedestal; 16.	
10452 <i>E 2092</i>	---Health Office Mole, head.	35° 29.8' N 12° 36.3' E	F.R.	23 7	3	Red post; 13.	
10456 <i>E 2091</i>	---Punta Favalaro, breakwater, head.	35° 29.8' N 12° 36.2' E	Fl.R. period 5s fl. 1s, ec. 4s	23 7	7	Red metal column on round pedestal; 16.	
10460 <i>E 2090</i>	--Punta Guitgia, W. side of entrance.	35° 29.6' N 12° 35.9' E	Fl.R. period 3s fl. 1s, ec. 2s	47 14	8	Red column on pedestal; 16.	
10464 <i>E 2086</i>	--Capo Ponente, island, W. head.	35° 31.1' N 12° 31.2' E	Fl.(3)W. period 15s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 8s	360 110	8	White column; 16.	Visible 290°-222°.
-Isola di Linosa:							
10468 <i>E 2082</i>	-- Punta Beppe Tuccio.	35° 52.2' N 12° 52.6' E	Fl.(4)W. period 20s fl. 1s, ec. 3s fl. 1s, ec. 3s fl. 1s, ec. 3s fl. 1s, ec. 7s	105 32	16	White round tower, dwelling; 56.	Visible 107°-345°, at distance less than 6 miles 103°-346°. Reserve light range 12M.
10472 <i>E 2080</i>	--Punta Arena Bianca, on SW. side of island.	35° 51.3' N 12° 51.2' E	Fl.W. period 5s fl. 1s, ec. 4s	31 9	9	White column on white hut; 20.	Visible 276°-30°-150°.
10476 <i>E 2084</i>	-Isolotto Lampione.	35° 32.9' N 12° 19.2' E	Fl.(2)W. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	131 40	7	Quadrangular masonry building; 20.	
ISOLA DI PANTELLARIA:							
10480 <i>E 2094</i>	-- Punta Spadillo.	36° 49.3' N 12° 00.7' E	Fl.(2)W. period 10s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 7.3s	164 50	24	White round tower; 69.	Reserve light range 18M.
10484 <i>E 2107</i>	-Punta Tracino.	36° 47.9' N 12° 02.9' E	Fl.(2)W. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	161 49	10	White round tower; 23.	
10492 <i>E 2106</i>	-Punta Limarsi.	36° 44.3' N 12° 02.2' E	Fl.(3)W. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	115 35	7	Framework structure, white round beacon; 20.	
10496 <i>E 2096</i>	-Scauri.	36° 46.1' N 11° 57.5' E	Fl.W. period 5s fl. 1s, ec. 4s	60 18	10	White framework structure; 20.	Fl.R. 3s shown from head of W. mole, Fl.G. 3s shown from head of E. mole.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SICILIA (SICILY) AND ADJACENT ISLANDS (I.)							

10500 <i>E 2098</i>	-Punta San Leonardo.	36° 50.1' N 11° 56.7' E	Fl.W. period 3s fl. 1s, ec. 2s	69 21	15	Yellow two-story dwelling; 9.	Reserve light range 8M.
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Section 8

Malta, South and East Coasts of Italy, and Slovenia

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MALTA AND GHAWDEX (GOZO)							
GHAWDEX (GOZO):							
10504 <i>E 2050</i>	-Gurden (Gordan).	36° 04.4' N 14° 13.1' E	Fl.W. period 7.5s fl. 0.3s, ec. 7.2s	592 180	20	White tower on dwelling; 72.	Signal station. Aero Radiobeacon 2.2 miles SSW.
10508 <i>E 2051</i>	-Ramla Tal-Mgarr Harbor, main breakwater.	36° 01.5' N 14° 18.2' E	Fl.R. period 4s	6 2	1		
10512 <i>E 2051.2</i>	--N. breakwater, head.	36° 01.6' N 14° 18.2' E	Fl.G. period 5s				
10514 <i>E 2053.5</i>	Kemmunnett.	36° 01.0' N 14° 18.9' E	Q.(9)W. period 15s	9 3	2	W. CARDINAL YBY, beacon, topmark.	
KEMMUNA RAS L-LRQIEQA:							
10516 <i>E 2054</i>	-Irkieka ta Kemmuna.	36° 00.3' N 14° 19.5' E	Fl.W. period 2s	23 7	2	White concrete column.	
MALTA:							
10524 <i>E 2055.5</i>	-Cirkewwa, ro-ro terminal, head.	35° 59.5' N 14° 19.8' E	Fl.R. period 5s	29 9	2	Concrete column.	
10528 <i>E 2057</i>	-St. Paul's Bay, jetty, root.	35° 56.9' N 14° 23.4' E	F.R.	26 8	2	White column on pedestal; 20.	
10532	--Fairway Buoy.	35° 54.8' N 14° 32.5' E	L.Fl.W. period 10s			SAFE WATER RW, pillar, topmark.	Radar reflector.
10544 <i>E 2061.5</i>	--Valleta.	35° 54.2' N 14° 31.2' E	Fl.(3)W. period 15s	161 49	19	Metal framework tower on Fort St. Elmo.	
10548 <i>E 2062</i>	--St. Elmo, W. side of entrance to Grand Harbor, breakwater, head.	35° 54.2' N 14° 31.6' E	Q.G.	52 16	7	White round tower, red band on E. side.	
10552 <i>E 2064</i>	--Ricasoli Breakwater, Grand Harbor, E. side of entrance, head.	35° 54.0' N 14° 31.4' E	Q.R.	36 11	6	Metal structure on white round stone tower, red bands on E. side; 30.	Obscured 120°-157° during firing or searchlight exercises.
10560 <i>E 2068</i>	-Luca AVIATION LIGHT.	35° 51.4' N 14° 28.1' E	Mo.(LU)G. period 9s	340 104	25	Framework structure; 9.	Visible from 170° to 345°. Occasional.
10564 <i>E 2070</i>	-Delimara Point.	35° 49.4' N 14° 33.6' E	Fl.(2)W. period 12s	115 35	18	Building.	
10565 <i>E 2070.6</i>	-Breakwater, head.	35° 49.1' N 14° 33.0' E	Fl.R. period 3s fl. 0.7s, ec. 2.3s	59 18	6		Visible 260°-042°.
10566 <i>E 2070.4</i>	--Inner Breakwater.	35° 49.2' N 14° 32.7' E	Q.R.	30 9	8		
10572 <i>E 2076</i>	--Fueling dolphin.	35° 49.7' N 14° 33.0' E	Fl.W. period 2s fl. 0.5s, ec. 1.5s				

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ITALY-SOUTHEAST COAST							
10580 <i>E 1782</i>	Capo Spartivento.	37° 55.5' N 16° 03.7' E	Fl.W. period 8s fl. 0.3s, ec. 7.7s	208 63	24	White square tower on dwelling; 51.	Visible 222°-082°. Reserve light range 18M.
10584 <i>E 2108</i>	Punta Stilo.	38° 26.8' N 16° 34.7' E	Fl.(3)W. period 15s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 8.8s	177 54	22	Quadrangular tower, black and white bands, yellow base; 51.	Reserve light range 18M.
10588 <i>E 2109</i>	Siderno Marina.	38° 27.0' N 16° 35.0' E	F.R.G. (vert.)	43 13 39 12	3	Post, red and black bands.	
10592 <i>E 2111.4</i>	-Lee mole, head.	0° 00.0' 0° 00.0'	Fl.R. period 4s fl. 1s, ec. 3s	36 11	4	Red and white banded lamppost; 24.	
10596 <i>E 2112</i>	Capo Rizzuto.	38° 53.7' N 17° 05.7' E	L.Fl.(2)W.R. period 10s fl. 2s, ec. 1s fl. 2s, ec. 5s	121 37	W. 17 R. 13	White octagonal tower on dwelling; 57.	R. 227°-270°, W.-084°, R.-133°.
10600 <i>E 2118</i>	Capo Colonne.	39° 01.5' N 17° 12.4' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	131 40	24	White octagonal tower on two- story dwelling; 72.	Visible 127°-020°. Reserve light range 18M.
CROTONE:							
10604 <i>E 2122</i>	-Porto Vecchio, 38 meters from breakwater, head.	39° 04.6' N 17° 08.2' E	Fl.(2)G. period 5s fl. 1s, ec. 1s fl. 1s, ec. 2s	36 11	8	Green metal column on pedestal; 13.	Vessels should not pass closer than 60 meters.
10608 <i>E 2123</i>	--Molo Sanita, head.	39° 04.6' N 17° 08.1' E	Fl.(2)R. period 5s fl. 1s, ec. 1s fl. 1s, ec. 2s	30 9	8	Red post; 23.	
10612 <i>E 2121.5</i>	-Porto Nuevo, head of Molo Giunti.	39° 05.2' N 17° 07.9' E	2 F.G. (vert.)	26 8 20 6	4	Green pole; 20.	
10616 <i>E 2121</i>	Molo Sottoflutto, head.	39° 05.5' N 17° 07.6' E	Fl.G. period 5s fl. 1s, ec. 4s	36 11	8	Green framework tower; 23.	Vessels should pass not closer than 50 meters.
10620 <i>E 2120</i>	-Foraneo, mole, head.	39° 05.2' N 17° 07.6' E	Fl.R. period 5s fl. 1s, ec. 4s	36 11	7	Red framework tower; 23.	Vessels should pass not closer than 100 meters.
10624 <i>E 2128</i>	Punta Alice.	39° 24.0' N 17° 09.5' E	Fl.(2)W. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	102 31	16	White octagonal tower on dwelling; 88.	
10628 <i>E 2130</i>	Capo Trionto.	39° 37.0' N 16° 46.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	69 21	12	White tower on dwelling; 59.	Reserve light F.W. 9M.
10630 <i>E 2130.5</i>	Punta Coscio.	39° 43.9' N 16° 30.4' E	Fl.(4)W. period 20s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 12s	75 23	12		Private.
10631 <i>E 2130.6</i>	Laghi di Sibari Range, front.	39° 44.0' N 16° 30.6' E	Iso.W. period 2s	15 5	4	Pyramidal mast, black and white bands; 15.	Visible 124°-154°.
10631.1 <i>E 2130.61</i>	-Rear, 60 meters 139° from front.	0° 00.0' 0° 00.0'	Iso.W. period 2s	23 7	4	Pyramidal mast, red and white bands; 20.	Visible 136°-246°. Synchronized with front.
10632 <i>E 2131</i>	Laghi di Sibari, marina, head of S. mole.	39° 44.0' N 16° 31.0' E	Q.R.	23 7	5	Red mast; 20.	Private.

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ITALY-SOUTHEAST COAST							
10636 <i>E 2131.2</i>	-N. mole, head.	39° 44.0' N 16° 31.0' E	Q.G.	23 7	3	Green mast; 20.	Private.
TARANTO:							
10640 <i>E 2132</i>	-Capo San Vito.	40° 24.6' N 17° 12.3' E	Fl.(3)W. period 15s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 8.8s	151 46	22	White octagonal tower, dwelling; 141.	Reserve light range 18M. Signal station. Radiobeacon.
10642 <i>E 2133</i>	-Mar Grande.	40° 25.3' N 17° 10.6' E	Q.(9)W. period 15s	26 8	6	W. CARDINAL YBY, articulated beacon, topmark.	Radar reflector.
10644 <i>E 2134</i>	-Diga di San Vito, W. head.	40° 26.0' N 17° 12.0' E	Fl.(2)G. period 7s fl. 1s, ec. 1s fl. 1s, ec. 4s	62 19	9	Green tower; 59.	When near Capo San Vito, partially obscured by the lights of Taranto.
-RACON			TA(- •-) period 30s		10		
10648 <i>E 2138</i>	-Isolotto San Paolo, breakwater, head.	40° 26.1' N 17° 10.9' E	Fl.(2)R. period 7s fl. 1s, ec. 1s fl. 1s, ec. 4s	38 12	9	Red round tower; 36.	
10650 <i>E 2142.3</i>	-Secca della Sirena, S.	40° 22.6' N 17° 12.7' E	Q.(6)+L.Fl.W. period 15s		6	S. CARDINAL YB, articulated beacon, topmark.	Q.R. and Q.G. articulated lights mark channel to E. Radar reflector.
10656 <i>E 2142.4</i>	-Secca della Sirena, W.	40° 27.7' N 17° 12.8' E	Q.R.	19 6	7	Red beacon.	Radar reflector.
10660 <i>E 2142.5</i>	-Mar Grande, close SW. Secca della Sirena.	40° 27.7' N 17° 13.0' E	Q.G.	20 6	8		Radar reflector.
10664 <i>E 2142.6</i>	-Detached breakwater, SE. head.	40° 27.9' N 17° 12.7' E	Q.R.	33 10	4	Red mast; 26.	
10672 <i>E 2143</i>	-Pontile Chiapparo, W. extremity.	40° 26.2' N 17° 14.7' E	F.G., F.R. (vert.)	26 8 21 6	4	Green mast, red bands.	
10676 <i>E 2143.2</i>	--N. extremity.	40° 26.3' N 17° 14.8' E	F.R., F.G. (vert.)	26 8 21 6	4	Red mast, green bands.	
10677 <i>E 2144</i>	--Jetty, head.	40° 26.8' N 17° 14.8' E	F.R.	26 8	5	Red column on pedestal.	
-Passagio Piccolo:							
10680 <i>E 2150</i>	--Mar Grande Range, Secca della Tarantola, front.	40° 26.8' N 17° 13.8' E	Fl.W.G. period 3s fl. 1s, ec. 2s	41 12	W. 11 G. 9	Green round tower; 36.	G. 057°-187°30', W. (over range line)-198°30', G.-025°, obsc.-057°.
10684 <i>E 2150.1</i>	---Rear, near Casa Gigante, about 3 km. 193° from front.	40° 25.4' N 17° 13.2' E	Iso.W. period 3s	69 21	14	Mast on white square tower, black stripes and top; 65.	Visible 189°36'-196°24'. F.R. on masthead. Reserve light range 10M.
10688 <i>E 2152</i>	--Mar Piccolo, N. Range, front.	40° 29.2' N 17° 14.5' E	Q.R.	38 12	6	Pyramidal structure, black and white stripes; 33.	
10690	--Fanale.	40° 29.7' N 17° 15.9' E	Fl.Y. period 3s fl. 1s, ec. 2s		2		
10692 <i>E 2152.1</i>	---Rear, 013° from front, near Casa Troilo.	40° 30.0' N 17° 15.0' E	Fl.W. period 3s fl. 1s, ec. 2s	66 20	11	Square masonry pillar, lower part black and white stripes, upper part black; 31.	Visible 007°30'-018°30'.
10694 <i>E 2158.4</i>	--Water intake.	40° 29.4' N 17° 14.3' E	F.Y.		2		A F.Y. light is shown at head of 3 structures.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ITALY-SOUTHEAST COAST							
10696 <i>E 2153</i>	--Canale Navigabile.	40° 28.3' N 17° 14.2' E	F.R.	26 8	4	Framework tower.	
10700 <i>E 2145</i>	--Commercial port, W. mole, head.	40° 28.5' N 17° 13.3' E	F.R.G. (vert.)	33 10	3	Lamppost, green and red bands; 20.	
10702 <i>E 2145.2</i>	---W. side.	40° 28.5' N 17° 13.2' E	F.G.R. (vert.)	33 10	3	Green mast, red bands; 19.	
10704 <i>E 2146</i>	---E. mole, head.	40° 28.5' N 17° 13.5' E	Fl.G. period 5s fl. 1s, ec. 4s	39 12	8	Green column on pedestal; 33.	
-Porto Industriale:							
10708 <i>E 2144.4</i>	--Italsider, pier "2", SE. corner, head.	40° 28.4' N 17° 13.1' E	F.R., F.G. (vert.)	33 10 29 9	5	Red and green banded post; 18.	F.G., F.R. (vert.) shown from SW. corner.
10712 <i>E 2144.43</i>	-Pier "3", SE. corner, head.	40° 28.4' N 17° 12.9' E	F.R., F.G. (vert.)	33 10 29 9	3	Pole with red and green stripes; 19.	
10716 <i>E 2144.44</i>	-Pier "3", S.W. corner, head.	40° 28.4' N 17° 13.0' E	F.G., F.R. (vert.)	33 10 29 9	3	Pole with red and green stripes; 19.	
10718 <i>E 2144.47</i>	--Pier "4" Range, front.	40° 28.7' N 17° 12.3' E	Q.R.	66 20	6	Mast, white rectangular daymark, black stripe; 18.	
10719 <i>E 2144.48</i>	---Rear, 690 meters 341° from front.	40° 29.1' N 17° 12.1' E	Oc.W. period 3s	137 42	20	Mast, white rectangular daymark, black stripe; 59.	
10720 <i>E 2144.45</i>	-Pier 4, SE. corner, head.	40° 28.4' N 17° 12.5' E	F.R., F.G. (vert.)	33 10 29 9	3	Pole, red and green stripes; 19.	
10724 <i>E 2144.5</i>	--E. breakwater, E. head.	40° 28.2' N 17° 13.2' E	Fl.R. period 5s fl. 1s, ec. 4s	39 12	7	Red metal pillar on pedestal; 30.	
-Punta Rondinella:							
10728 <i>E 2162</i>	--Detached breakwater, N. head.	40° 29.0' N 17° 08.0' E	Fl.G. period 5s fl. 1s, ec. 4s	39 12	7	Green pole; 22.	Punta Rondinella Passage marked by Fl.R. 3s, Fl.G. 3s 1.35 miles ESE.
10732 <i>E 2162.2</i>	---S. head.	40° 28.9' N 17° 08.8' E	Q.R. period 1s	47 14	5	Red pole; 19.	Harbor approach marked by articulated beacons Q.(6)+L.Fl.W. 15s 2.8 miles SSW., Q.(9)W. 15s 2.4 miles SW., 2.5 miles WSW., 1.5 miles W.
10736 <i>E 2162.4</i>	--Lee mole, head.	40° 29.7' N 17° 08.8' E	Fl.R. period 5s fl. 1s, ec. 4s	47 14	8	Red pole; 19.	Articulated beacons Q.Y. 5M 650 meters 315°, Q.Y. 6M 840 meters 167°, Q.G. 3M 620 meters 114° from light. Radar reflector.
10740 <i>E 2162.6</i>	-Passaggi scogliera Punta Rondinella, N. side.	40° 29.7' N 17° 09.3' E	F.G.	33 10	3	Green pole; 19.	
10744 <i>E 2142.92</i>	-Point Rondinella, breakwater, W. side.	40° 28.0' N 17° 10.0' E	Q.G.	33 10	3	Green pole; 26.	
10748 <i>E 2142.9</i>	-Point Rondinella, breakwater, E. side.	40° 28.0' N 17° 10.0' E	Q.R.	33 10	3	Red pole; 26.	
10752 <i>E 2164</i>	Porto Cesareo, entrance Range, front.	40° 15.5' N 17° 54.2' E	Iso.W. period 2s	42 13	7	Framework tower on black and white checkered hut; 39.	Visible 350°-068°.
10756 <i>E 2164.1</i>	-Rear, 765 meters 034° from front.	40° 16.0' N 17° 54.2' E	Oc.W. period 3s lt. 2s, ec. 1s	87 27	11	Black and white checkered quadrangular tower; 49.	Visible 339°-099°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ITALY-SOUTHEAST COAST							
GALLIPOLI:							
10760 <i>E 2168</i>	-Isola Sant' Andrea.	40° 02.8' N 17° 56.7' E	Fl.(2)W. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	148 45	11	White octagonal tower on two-story dwelling; 141.	Reserve light.
10764 <i>E 2172</i>	-Molo di Tramontana.	40° 03.6' N 17° 59.0' E	L.FI.G. period 5s fl. 2s, ec. 3s	33 10	8	Green column on pedestal; 23.	Visible 090°-054°, (S. of peninsula visible 353°-002°).
10765 <i>E 2172.2</i>	--Molo di Sottoflutto.	40° 03.5' N 17° 59.0' E	L.FI.R. period 5s fl. 2s, ec. 3s	33 10	8	Red tower.	
10768 <i>E 2170</i>	-Secca del Rafo.	40° 03.8' N 17° 58.6' E	Q.W.	16 5	5	N. CARDINAL BY, articulated beacon, topmark.	Radar reflector.
10772 <i>E 2173</i>	-Seno del Canneto, breakwater, head.	40° 03.1' N 17° 58.8' E	F.R.	23 7	6	Red post; 16.	F.G. shown on mole.
10776 <i>E 2174</i>	Torre San Giovanni.	39° 53.2' N 18° 06.8' E	Iso.W.R. period 4s	75 23	W. 15 R. 11	Black and white checkered tower; 72.	R. 310°-013°, W.-120°. Reserve light range W. 11M, R. 9M.
10778 <i>E 2174.4</i>	-Secche di Ugento.	39° 49.8' N 18° 07.7' E	Q.(9)W. period 15s	19 6	5	W. CARDINAL YBY, beacon, topmark.	Radar reflector.
10780 <i>E 2176</i>	Capo Santa Maria di Leuca.	39° 47.7' N 18° 22.1' E	Fl.(3)W. period 15s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 8.5s Oc.R. period 4s lt. 3s, ec. 1s	334 102 328 100	25 11	White octagonal tower on two-story dwelling; 159. Same tower.	Reserve light range 18M. Signal station. Radiobeacon. Visible 094°-106°.
10784 <i>E 2177</i>	Tricase, outer mole, head.	39° 55.9' N 18° 23.8' E	Iso.G. period 2s	33 10	4	Green pole; 20.	
ITALY-EAST COAST							
10788 <i>E 2178</i>	Capo d'Otranto.	40° 06.3' N 18° 31.4' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	279 85	18	White round tower on dwelling; 26.	
10792 <i>E 2182</i>	Otranto, Punta Craul, N. of port.	40° 09.2' N 18° 29.6' E	Fl.(3)W.R. period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	39 12	W. 12 R. 9	White column on pedestal; 30.	R. 165°-183°, W.-165°.
10796 <i>E 2186</i>	-Punta San Nicola, mole, head.	40° 08.9' N 18° 29.7' E	FI.R. period 3s fl. 1s, ec. 2s	36 11	8	Red column on pedestal; 20.	
10800 <i>E 2188</i>	Torre Sant' Andrea.	40° 15.3' N 18° 26.7' E	Fl.(2)W.R. period 7s fl. 1s, ec. 1s fl. 1s, ec. 4s	79 24	W. 15 R. 12	Square black and white checkered tower; 52.	R. 300°-343°, W.-300°.
10804 <i>E 2190</i>	San Foca di Melendugno.	40° 18.3' N 18° 24.3' E	F.G.	18 5	3	Green mast.	
10808 <i>E 2192</i>	Punta San Cataldo di Lecce.	40° 23.4' N 18° 18.5' E	L.FI.W. period 5s fl. 2s, ec. 3s	82 25	16	White tower on white building; 77.	Visible 140°-315°. Reserve light range 12M.
BRINDISI:							
10812 <i>E 2194</i>	-Cape Cavallo.	40° 39.7' N 18° 02.3' E	Q.(3)W. period 10s	16 5	5	E. CARDINAL BYB, articulated beacon.	Radar reflector.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ITALY-EAST COAST							
10816 <i>E 2196</i>	-Le Pedagne, on Isolotto Traverso, E. side.	40° 39.5' N 17° 59.4' E	Fl.(2)R. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	69 21	8	White round tower on black round dwelling; 61.	Visible 349°-252°.
10822 <i>E 2208</i>	-Brindisi-Casale AVIATION LIGHT.	40° 39.1' N 17° 56.6' E	Al.FI.W.G. period 17s W. fl. 1s, ec. 3s G. fl. 1s, ec. 3s W. fl. 1s, ec. 8s	59 18	W. 24 G. 18	Metal framework tower; 33.	
10822.5 <i>E 2198</i>	-Main breakwater, head.	40° 39.7' N 17° 59.8' E	Fl.(2)G. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	40 12	5	Green pole.	
10823 <i>E 2203.4</i>	-Secca Dell Arco.	40° 39.0' N 17° 58.6' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	16 5	4	ISOLATED DANGER BRB, mast, topmark.	
10824 <i>E 2204</i>	-Head of N. breakwater, S. of Castello a Mare.	40° 39.1' N 17° 58.1' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	39 12	8	Green tower; 29.	Nautophone: Mo.(M) ev. 20s.
10828 <i>E 2206</i>	-Head of S. breakwater, opposite Castello a Mare.	40° 39.0' N 17° 58.2' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	34 10	7	Red round tower; 23.	
10830 <i>E 2203</i>	-Molo Montecatini Edison, head.	40° 38.9' N 17° 58.9' E	F.R.	26 8	2	Red post; 7.	
	-Canale Pigionati:						
10832 <i>E 2212</i>	--E. side of inner harbor entrance.	40° 38.7' N 17° 57.2' E	Iso.R. period 2s	30 9	5	Red column on hut; 20.	
10836 <i>E 2210</i>	--W. side of inner harbor entrance.	40° 38.7' N 17° 57.1' E	Iso.G. period 2s	30 9	5	Green column on hut; 20.	
10840 <i>E 2216</i>	--Inner end of entrance to canal, on E. side.	40° 38.6' N 17° 57.1' E	F.R.	31 9	6	Red framework structure; 25.	Visible 018°-227°.
10844 <i>E 2214</i>	--Inner end of entrance to canal, on W. side.	40° 38.6' N 17° 57.0' E	F.G.	31 9	6	Green framework structure; 25.	Visible 227°-070°.
10846 <i>E 2202</i>	Monument.	40° 38.6' N 17° 56.8' E	Fl.(4)W. period 20s fl. 0.5s, ec. 3s fl. 0.5s, ec. 3s fl. 0.5s, ec. 3s fl. 0.5s, ec. 9s	226 69	17	On Monument Del Marinaio D'Italia; 164.	Visible 120°-320°. F.R. marks top of monument.
10848	-Galleggianti, E. pier, head.	40° 38.4' N 17° 56.3' E	F.R.		2		
10852	--W. pier, head.	40° 38.5' N 17° 56.2' E	F.R.		2		
10856 <i>E 2222</i>	Torre Canne.	40° 50.4' N 17° 28.2' E	Fl.(2)W. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	115 35	16	White octagonal masonry tower, dwelling; 104.	Reserve light range 12M.
10860 <i>E 2223</i>	Savellettri.	40° 52.4' N 17° 24.8' E	Fl.G. period 5s fl. 1.5s, ec. 3.5s	26 8	3	White column on hut, black bands; 23.	
10864 <i>E 2223.4</i>	-S. mole, head.	40° 52.3' N 17° 24.7' E	F.R.	26 8	3	White and red banded post; 20.	
10868 <i>E 2224</i>	Monopoli, Molo Margherita, head.	40° 57.4' N 17° 18.4' E	Fl.R. period 3s fl. 1s, ec. 2s	48 15	8	Round tower, red and white bands; 49.	
10872 <i>E 2226</i>	-N. mole, head.	40° 57.4' N 17° 18.4' E	Fl.G. period 3s fl. 1s, ec. 2s	43 13	8	Green metal framework tower on hut; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ITALY-EAST COAST							
10876 E 2228	Mola di Bari, breakwater, head.	41° 03.6' N 17° 06.0' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	43 13	7	White metal framework tower, black bands; 33.	
10880 E 2229	-Braccio di Levante, head.	41° 03.6' N 17° 06.0' E	2 F.R. (vert.)	26 8	4	Red metal pillar; 20.	
10884 E 2230	Cala Portecchia, outer mole, head.	41° 03.8' N 17° 05.3' E	F.R.	26 8	7	Red post; 20.	
10886 E 2230.4	-N. mole, head.	41° 03.8' N 17° 05.3' E	F.G.	26 8	7	Green post; 20.	
10888 E 2231	Torra Mare (Torre Pelosa).	41° 05.4' N 16° 59.8' E	F.R.	31 9	3	Red post; 26.	F.G. shown from inner breakwater. Private light.
10892 E 2232	-Punta San Cataldo.	41° 08.3' N 16° 50.7' E	Fl.(3)W. period 20s fl. 0.2s, ec. 3.8s fl. 0.2s, ec. 3.8s fl. 0.2s, ec. 11.8s	218 66	24	White octagonal tower, twostory dwelling; 205.	Oc.R. shown about 0.7 km. WSW. Reserve light range 18M.
10896 E 2233	-Nuovo Molo Foraneo, 5th arm, head.	41° 08.8' N 16° 50.9' E	Fl.R. period 3s fl. 1s, ec. 2s	39 12	7	Red metal column; 20.	
	-RACON		K(- • -) period 30s		10		
10900 E 2236	-Nuovo Molo Foraneo, 3rd arm, head.	41° 08.6' N 16° 51.3' E	Fl.R. period 5s fl. 1s, ec. 4s	16 5	4	Red column; 13.	Visible 273°-129°.
10904 E 2241	--Inner spur, head.	41° 08.5' N 16° 52.0' E	Fl.R. period 5s fl. 1s, ec. 4s	23 7	3	Red iron framework tower; 16.	
10908 E 2234	-Molo San Cataldo, head.	41° 08.5' N 16° 51.1' E	Fl.G. period 3s fl. 1s, ec. 2s	39 12	7	Green metal framework tower; 30.	
10914 E 2235.2	---Mole, head.	41° 08.0' N 16° 51.0' E	F.G.	10 3	6	Green mast; 7.	
10916 E 2240	-Molo di Ridosso, head.	41° 08.4' N 16° 52.0' E	2 F.G. (vert.)	26 8 23 7	6	Green mast; 20.	
10920 E 2238	-Vecchio Molo Foraneo, head.	41° 08.2' N 16° 51.7' E	2 F.R. (vert.)	29 9 26 8	6	Red mast on tower; 13.	
10924 E 2243	-Molo S. Vito, head.	41° 08.0' N 16° 52.0' E	F.R., F.G. (vert.)	26 8 20 6	6	Red and green striped pole; 20.	
10928 E 2242	-Molo Pizzoli, head.	41° 08.0' N 16° 51.7' E	2 F.G. (vert.)	29 9 26 8	6	Green mast, black bands; 23.	
10932 E 2244	-Molo San Antonio.	41° 07.6' N 16° 52.8' E	Fl.G. period 5s fl. 1s, ec. 4s	56 17	9	White round masonry tower, green bands; 46.	Visible 190°-130°.
10936 E 2246	Santo Spirito, N. side of entrance.	41° 10.0' N 16° 45.1' E	2 F.G. (vert.)	33 10 26 8	3	Green post; 26.	Private light.
10940 E 2246.2	-S. side of entrance.	41° 10.0' N 16° 45.3' E	2 F.R. (vert.)	33 10 26 8	3	Red post; 26.	Private light.
10944 E 2247	Giovinazzo, W. breakwater.	41° 11.4' N 16° 40.4' E	F.G.	26 8	4	Green mast; 20.	Private light.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ITALY-EAST COAST							
10948 <i>E 2247.3</i>	-E. breakwater.	41° 11.5' N 16° 40.4' E	F.R.	26 8	4	Red mast; 20.	Private light.
10952 <i>E 2248</i>	Molfetta.	41° 12.5' N 16° 35.6' E	Iso.W. period 6s	66 20	17	White octagonal tower on dwelling; 61.	Reserve light range 12M.
10956 <i>E 2252</i>	-Molo Foraneo, head.	41° 12.7' N 16° 35.5' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	39 12	7	Red round tower; 34.	
10960 <i>E 2250</i>	-Detached breakwater, head.	41° 12.8' N 16° 35.6' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	43 13	7	Green column on pedestal; 20.	
10964 <i>E 2254</i>	-Molo Pennello, head.	41° 12.4' N 16° 35.4' E	F.G.	16 5	4	White pillar on round hut, black bands; 10.	
10968 <i>E 2258</i>	Bisceglie, W. mole, head.	41° 14.7' N 16° 30.4' E	Fl.R. period 3s fl. 1s, ec. 2s	33 10	8	Red tower; 20.	Private light.
TRANI:							
10972 <i>E 2261</i>	-Molo San Antonio, 20 meters from head of extension.	41° 16.9' N 16° 25.6' E	F.R.	26 8	3	Red mast; 23.	
10976 <i>E 2260</i>	-Molo San Antonio, head.	41° 16.9' N 16° 25.7' E	Fl.W. period 5s fl. 1s, ec. 4s	31 9	12	Round tower; 16.	
10980 <i>E 2262</i>	-Braccio di San Nicola.	41° 20.0' N 16° 17.4' E	F.G.	26 8	3	White mast, black bands; 20.	
BARLETTA:							
10984 <i>E 2264</i>	-Molo di Tramontana.	41° 19.8' N 16° 17.4' E	L.Fl.(2)W. period 12s fl. 2s, ec. 2s fl. 2s, ec. 6s	98 30	17	Octagonal masonry tower, dwelling; 92.	Reserve light range 9M.
10988 <i>E 2266</i>	--At head.	41° 19.8' N 16° 17.5' E	Fl.G. period 4s fl. 1s, ec. 3s	39 12	8	Green column on pedestal; 23.	Visible 160°-080°. F.G. marks head of breakwater 280 meters NNW.
10992	-Church.	41° 19.0' N 16° 16.5' E	F.W.		10	Cupola of church.	
10996 <i>E 2268</i>	-Diga di Levante, head.	41° 20.0' N 16° 17.7' E	Fl.R. period 4s fl. 1s, ec. 3s	39 12	8	Red column on pedestal; 20.	
10998 <i>E 2270</i>	-Jetty, head.	41° 19.5' N 16° 17.1' E	F.R.	23 7	4	Red mast; 19.	
11000 <i>E 2274.4</i>	Margherita de Savoia, outer mole, head.	41° 23.4' N 16° 08.2' E	Fl.R. period 5s fl. 1s, ec. 4s	26 8	4	Red mast; 20.	Private light.
11004 <i>E 2274.6</i>	-Inner mole, head.	41° 23.3' N 16° 07.9' E	Fl.G. period 5s fl. 1s, ec. 4s	26 8	4	Green mast; 20.	Private light.
11008 <i>E 2275</i>	Foce Aloisa, pier, head.	41° 25.9' N 16° 00.7' E	F.R.	52 16	3	Red column on white hut.	Private light.
11012 <i>E 2276</i>	Manfredonia.	41° 37.7' N 15° 55.4' E	Fl.W. period 5s fl. 0.2s, ec. 4.8s	66 20	23	White hexagonal tower on dwelling; 60.	Reserve light range 18M. May be lost in background lights at 11 miles or less.
11016 <i>E 2277</i>	-Molo di Levante, head.	41° 37.2' N 15° 55.5' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	46 14	7	White round tower, green top, green triangular topmark, point up; 41.	
11020 <i>E 2278</i>	-Molo di Mezzogiorno, head.	41° 37.3' N 15° 55.3' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	36 11	7	White round tower, red top, red square daymark; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ITALY-EAST COAST							
11024 E 2281	-Industrial Port, outer mole, head.	41° 36.7' N 15° 57.0' E	Oc.G. period 3s lt. 2s, ec. 1s	33 10	7	Green post; 16.	Private light.
11028 E 2282	--Inner mole, head.	41° 37.0' N 15° 56.9' E	Oc.R. period 3s lt. 2s, ec. 1s	33 10	7	Red post; 16.	Private light.
11032 E 2284	Mattinata, on Punta Agnoli.	41° 42.6' N 16° 04.8' E	F.G.	26 8	3	Green mast; 19.	
11036 E 2286	Torre Proposti.	41° 46.9' N 16° 11.5' E	Fl.W. period 5s fl. 1s, ec. 4s	203 62	15	Red tower on white house; 72.	Visible 186°-020°.
11040 E 2288	Vieste.	41° 53.3' N 16° 11.1' E	Fl.(3)W. period 15s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 8.8s	131 40	25	White octagonal tower on two-story dwelling, "Vieste" in black; 90.	Visible 124°-348°. Radiobeacon.
11044 E 2288.4	-Cala San Lorenzo, head.	41° 53.2' N 16° 10.7' E	2 F.R. (vert.)	29 9	3	Red and white banded pole; 19.	
11048 E 2290	Rodi Garganico, mole, head.	41° 55.7' N 15° 53.4' E	Fl.R. period 3s fl. 1s, ec. 2s	26 8	8	Red metal pillar on pedestal; 16.	
11052 E 3586	Otok Palagruza (Cr.).	42° 23.5' N 16° 15.6' E	Fl.W. period 17.5s fl. 0.8s, ec. 16.7s	361 110	26	Octagonal tower on building; 74.	Reserve light range 12M.
11056 E 3588	-Near main light (Cr.).	42° 23.0' N 16° 15.0' E	Iso.R. period 2s	315 96	5	Iron support on roof of white concrete hut.	Visible 264°-304°, over Hridi Gaiola.
11060 E 2300	Isola Pianosa.	42° 13.5' N 15° 44.8' E	Fl.(2)W. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	82 25	10	White round tower, 56.	
ISOLE DI TREMITI:							
11064 E 2296	-Isola Caprara.	42° 08.0' N 15° 31.0' E	Fl.W. period 5s fl. 1s, ec. 4s	75 23	8	White metal framework tower; 32.	Visible 110°-020°.
11068 E 2298	-Isola San Nicola, Tremiti, head of mole.	42° 07.1' N 15° 30.1' E	2 F.G. (vert.)	30 9 26 8	3	Mast on round green pedestal; 23.	
11072 E 2297	-Isola San Nicola.	42° 07.4' N 15° 30.9' E	Fl.(4)W. period 15s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 8s	285 87	12	White metal tower, red bands; 52.	
11076 E 2294	-Punta del Diavolo, Isola San Domino, SW. head.	42° 06.4' N 15° 28.6' E	Fl.(3)W. period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	157 48	11	White octagonal tower on house; 52.	Visible 300°-175°.
TERMOLI:							
11080 E 2303	-Termoli.	42° 00.1' N 14° 59.8' E	Fl.(2)W. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	135 41	15	White quadripod; 56.	Reserve light range 11M.
11084 E 2304	-Molo Nord, outer head.	42° 00.1' N 15° 00.3' E	Fl.G. period 3s fl. 1s, ec. 2s	36 11	8	Green pillar on pedestal; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ITALY-EAST COAST							
11088 <i>E 2304.2</i>	--Inner head.	42° 00.2' N 15° 00.1' E	2 F.G. (vert.)	26 8 23 7	3	Green column.	Visible 290°-135°.
11092 <i>E 2305</i>	--Molo Sud, head.	42° 00.1' N 15° 00.1' E	Fl.R. period 3s fl. 1s, ec. 2s	30 9	5	Red column on platform.	
11100 <i>E 2306</i>	Punta della Penna.	42° 10.2' N 14° 42.9' E	Fl.W. period 5s fl. 0.2s, ec. 4.8s	277 84	25	Octagonal tower on two-story dwelling; 230.	Reserve light range 18M. Radiobeacon.
11104 <i>E 2307</i>	--Porto Vasto, Molo di Levante, head.	42° 10.6' N 14° 42.7' E	Fl.R. period 3s fl. 1s, ec. 2s	29 9	4	Red column; 23.	
11108 <i>E 2307.2</i>	--Spur.	42° 10.4' N 14° 42.6' E	Fl.R. period 6s fl. 1s, ec. 5s	29 9	4	Red column; 20.	Obscured 203°-309°.
11112 <i>E 2307.5</i>	--Molo di Ponente, head.	42° 10.6' N 14° 42.6' E	Fl.G. period 3s fl. 1s, ec. 2s	29 9	7	Green column; 23.	
11120 <i>E 2307.7</i>	---Spur.	42° 10.6' N 14° 42.7' E	Fl.G. period 6s fl. 1s, ec. 5s	29 9	4	Green column; 20.	Obscured 015°-169°.
11124 <i>E 2308</i>	San Vito Chietino, pier, head.	42° 19.0' N 14° 27.0' E	F.R.	26 8	1	Red post; 20.	
ORTONA:							
11128 <i>E 2312</i>	--Molo Nord.	42° 21.5' N 14° 24.5' E	Fl.(2)W. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	75 23	15	White octagonal tower on yellow dwelling, tower and N. side dwelling in black and white bands; 84.	Reserve light range 11M.
11132 <i>E 2313</i>	--Near head.	42° 21.0' N 14° 25.4' E	Fl.G. period 3s fl. 1s, ec. 2s	30 9	9	Green tower; 16.	
11136 <i>E 2315</i>	--Molo a Martello, E. corner, head.	42° 21.2' N 14° 24.9' E	2 F.G. (vert.)	26 8 23 7	3	Green column on platform; 20.	
11138 <i>E 2315.1</i>	--Mandrachio, head.	42° 21.4' N 14° 24.6' E	F.R.				
11140 <i>E 2314</i>	--Molo Sud, head.	42° 20.9' N 14° 25.4' E	Fl.R. period 3s fl. 1s, ec. 2s	30 9	9	Red tower; 16.	
11142 <i>E 2315.6</i>	--Tower.	42° 28.0' N 14° 19.1' E	Oc.(2)Y. period 10s lt. 2s, ec. 1s lt. 6s, ec. 1s	66 20	5	On tower.	Nautophone: Mo.(R) ev. 45s.
PESCARA:							
11143 <i>E 2317</i>	--Detached breakwater, W. head.	42° 28.4' N 14° 13.6' E	Fl.(2)R. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	33 10	5	Red column; 20.	
11143.5 <i>E 2317.2</i>	--E. head.	42° 28.3' N 14° 14.1' E	Fl.(2)G. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	33 10	5	Green column; 20.	
11144 <i>E 2319</i>	--Molo di Scirocco.	42° 28.1' N 14° 13.8' E	Fl.R. period 4s fl. 1s, ec. 3s	43 13	8	Red column on platform; 36.	Reserve light F.R., 6 meters. Nautophone: Mo.(K) ev. 48s.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ITALY-EAST COAST							
11148 <i>E 2318</i>	-S. mole, root.	42° 27.9' N 14° 13.7' E	Fl.(3)W. period 20s fl. 0.2s, ec. 3.8s fl. 0.2s, ec. 3.8s fl. 0.2s, ec. 11.8s	103 31	17	Silo; 98.	F.R. mark top of silo. With background lights range reduced to 12M.
11152 <i>E 2320</i>	-Molo di Maestro.	42° 28.0' N 14° 13.0' E	Fl.G. period 4s fl. 1s, ec. 3s	43 13	8	Green column on platform; 36.	
GIULIANOVA:							
11156 <i>E 2324</i>	-Molo Sud, head.	42° 45.3' N 13° 58.9' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	26 8	4	Red column on platform; 23.	
11160 <i>E 2325</i>	--Second elbow.	42° 45.0' N 13° 39.0' E	F.R.		2		
11164 <i>E 2326</i>	-Molo Nord, head.	42° 45.2' N 13° 58.7' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	26 8	4	Green column on platform; 23.	Private.
11168 <i>E 2326.2</i>	--Spur, head.	42° 45.2' N 13° 58.6' E	F.G.		2		
11172 <i>E 2335</i>	Fiume Tronto, S. side.	42° 53.5' N 13° 55.5' E	2 F.R. (vert.)	39 12 34 10	3	Red mast; 26.	
11176 <i>E 2332</i>	San Benedetto del Tronto.	42° 57.1' N 13° 53.2' E	Fl.(2)W. period 10s fl. 0.2s, ec. 2s fl. 0.2s, ec. 7.6s	102 31	22	White round tower on white two-story dwelling; 102.	Obscured 225°-315°. Reserve light range 18M. Radiobeacon.
11180 <i>E 2333</i>	-N. mole, head.	42° 57.2' N 13° 53.2' E	Fl.G. period 3s fl. 1s, ec. 2s	26 8	8	Green column on platform; 23.	
11184 <i>E 2334</i>	-S. mole, head.	42° 57.2' N 13° 53.5' E	Fl.R. period 3s fl. 1s, ec. 2s	26 8	8	Red column on platform; 20.	Nautophone: Mo.(W) ev. 45s.
11188 <i>E 2336</i>	Pedaso, about 1 km. S. of village.	43° 05.2' N 13° 50.7' E	Fl.(3)W. period 15s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 8s	167 51	16	White tower on house; 69.	Reserve light range 12M.
11190 <i>E 2337</i>	Porto San Giorgio, outer mole.	43° 10.2' N 13° 48.8' E	Fl.(2)R. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	26 8	5	Red post; 20.	Nautophone: Mo.(U) ev. 45s. Private light.
11192 <i>E 2337.2</i>	-Inner mole.	43° 10.0' N 13° 48.8' E	Fl.(2)G. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	26 8	5	Green post; 20.	Private light.
11196 <i>E 2339</i>	Porto Civitanova, N. mole, head.	43° 18.8' N 13° 44.1' E	Fl.G. period 5s fl. 1s, ec. 4s	31 9	8	Green tower; 26.	
11200 <i>E 2338</i>	-E. mole, head.	43° 18.9' N 13° 44.1' E	Fl.R. period 5s fl. 1s, ec. 4s	33 10	8	Red metal column; 20.	Nautophone: (at root of mole) Mo.(R) ev. 30s.
11204 <i>E 2338.2</i>	--On spur extending W. from head.	43° 18.7' N 13° 44.0' E	2 F.R. (vert.)	28 9 24 7	3	Red column.	
11208 <i>E 2337.6</i>	-Chiesa di Cristo Re.	43° 18.5' N 13° 43.7' E	Mo.(C)W. period 20s fl. 3s, ec. 1s fl. 1s, ec. 1s fl. 3s, ec. 1s fl. 1s, ec. 9s	138 42	11	Church tower; 151.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ITALY-EAST COAST							
ANCONA:							
11216 <i>E 2344</i>	-Colle Cappuccini.	43° 37.3' N 13° 31.0' E	Fl.(4)W. period 30s fl. 0.3s, ec. 4.7s fl. 0.3s, ec. 4.7s fl. 0.3s, ec. 4.7s fl. 0.3s, ec. 14.7s	387 118	25	White and gray banded tower; 49.	Obscured S. of bearing 306°. Obscured 120°-121°30'. Reserve light range 18M. Signal station.
11220 <i>E 2349</i>	-Molo Foraneo Sud, NW. extension, head.	43° 37.3' N 13° 29.7' E	Fl.G. period 4s fl. 1s, ec. 3s	36 11	7	Green tower; 33.	
11224 <i>E 2346</i>	-Molo Foraneo Nord, head.	43° 37.5' N 13° 29.6' E	Fl.R. period 4s fl. 1s, ec. 3s	36 11	8	Red stone tower; 20.	Visible 277°-224°. Nautophone: Mo(M) ev. 45s.
	-RACON		A(•-) period 30s		6		
11228 <i>E 2347</i>	-Molo Nord, spur, W. head.	43° 37.5' N 13° 29.9' E	F.R.	23 7	3	Red mast; 23.	
11232 <i>E 2348</i>	--E. end.	43° 37.4' N 13° 30.0' E	Fl.R. period 3s fl. 1s, ec. 2s	26 8	8	Red column on platform; 23.	
11236 <i>E 2350</i>	-Molo Sud.	43° 37.4' N 13° 29.9' E	Fl.G. period 3s fl. 1s, ec. 2s	36 11	8	Green column on platform; 23.	
11244 <i>E 2351.5</i>	-Maroldi Wharf, head.	43° 37.0' N 13° 29.6' E	F.R.	33 10	4	Red post; 33.	
11248 <i>E 2352</i>	-Naval shipyard breakwater, W. head.	43° 37.7' N 13° 29.9' E	Q.R.	23 7	4	Red post.	
11252 <i>E 2352.5</i>	--N. angle.	43° 37.8' N 13° 30.2' E	2 F.R. (vert.)	23 7 16 5	3	Red post.	Private.
FALCONARA MARITTIMA:							
11256 <i>E 7471</i>	-Pipeline terminal AP 1.	43° 44.6' N 13° 31.3' E	Mo.(U)W. period 15s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 2s, ec. 10s		6	Revolving platform.	Nautophone: Mo.(U) ev. 30s.
11260 <i>E 7470</i>	-Pipeline terminal.	43° 40.0' N 13° 24.5' E	Fl.Y. period 3s fl. 1s, ec. 2s	98 30	6	SPECIAL Y, post, topmark.	Nautophone: 2 bl. ev. 45s (bl. 5s, si. 2s, bl. 5s, si. 33s).
11264 <i>E 2354</i>	-Mole, head.	43° 38.8' N 13° 23.6' E	3 F.Y. (vert.)	33 10 28 9 23 7	2	SPECIAL Y, hut, topmark; 33.	
SENIGALLIA:							
11268 <i>E 2359</i>	-E. mole, head.	43° 43.3' N 13° 13.4' E	Fl.R. period 3s fl. 1s, ec. 2s	26 8	8	Red column on platform; 23.	Nautophone: Mo.(D) ev. 45s.
11272 <i>E 2360</i>	-W. mole, head.	43° 43.3' N 13° 13.3' E	Fl.G. period 3s fl. 1s, ec. 2s	26 8	8	Green column; 23.	
11276 <i>E 2358</i>	-Molo Di Levante.	43° 43.1' N 13° 13.3' E	L.Fl.(2)W. period 15s fl. 3s, ec. 2s fl. 3s, ec. 7s	57 17	15	White octagonal brick tower, black bands, dwelling; 56.	Reserve light range 10M. Radiobeacon.

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ITALY-EAST COAST							
FANO:							
11280 E 2362	-Inner part of channel.	43° 51.0' N 13° 01.0' E	Fl.W. period 5s fl. 1s, ec. 4s	69 21	15	White square tower on two-story dwelling; 66.	Reserve lights Fl.W. 10M, F.W. 10M.
11284 E 2364	-E. mole, head.	43° 51.2' N 13° 01.1' E	Fl.R. period 3s fl. 1s, ec. 2s	29 9	8	Red column on platform; 23.	Nautophone: Mo.(G) ev. 48s.
11288 E 2366	-W. mole, head.	43° 51.2' N 13° 01.0' E	Fl.G. period 3s fl. 1s, ec. 2s	26 8	8	Green column on pedestal; 23.	
11292 E 2368	-Canal entrance, mole, outer head.	43° 51.1' N 13° 01.0' E	F.G., F.R. (vert.)	26 8 23 7	R. 6 G. 5	Lamppost, red and green bands; 20.	
PESARO:							
11296 E 2372	-Monte di San Bartolo.	43° 55.3' N 12° 53.0' E	Fl.(2)W. period 15s fl. 0.2s, ec. 3.6s fl. 0.2s, ec. 11s	574 175	25	White tower on dwelling; 82.	Obscured S. of bearing 125°. Reserve light range 18M.
11300 E 2374	-45 meters from E. mole, head.	43° 55.6' N 12° 54.6' E	Fl.R. period 5s fl. 1s, ec. 4s	26 8	8	Red column on platform; 23.	Reserve light F.R. Nautophone: Mo.(S) ev. 45s.
11304 E 2376	-20 meters from W. mole, head.	43° 55.5' N 12° 54.5' E	Fl.G. period 5s fl. 1s, ec. 4s	26 8	8	Green column on platform; 23.	Reserve light F.G.
11308 E 2381	Cattolica.	43° 58.2' N 12° 45.0' E	L.Fl.(3)W. period 14s fl. 2s, ec. 1s fl. 2s, ec. 1s fl. 2s, ec. 6s	56 17	15	White framework tower, black bands; 56.	Reserve light range 8M.
11312 E 2382	-E. mole, head.	43° 58.0' N 12° 45.2' E	Fl.R. period 3s fl. 1s, ec. 2s	23 7	8	Red column on platform; 20.	Reserve light F.R. Nautophone: Mo.(K) ev. 48s.
11316 E 2384	-W. mole, head.	43° 58.2' N 12° 45.1' E	Fl.G. period 3s fl. 1s, ec. 2s	23 7	8	Green column on pedestal; 20.	Reserve light F.G.
11317	-Porto Verde, tourist port, head of mole.	43° 58.0' N 12° 44.0' E	Iso.R. period 2s		2		Private light.
11318 E 2388.2	--Mole, head.	43° 58.3' N 12° 43.1' E	Iso.G. period 2s		3		Private light.
11320 E 2390	Riccione, E. mole, head.	44° 00.0' N 12° 39.0' E	F.R.	36 11	3	Iron mast; 26.	
11324 E 2394	Rimini.	44° 04.0' N 12° 35.0' E	Fl.(3)W. period 12s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 5s	89 27	15	White square brick tower on octagonal structure; 82.	Visible 160°-280°. Reserve light range 10M.
11328 E 2396	-E. mole, head.	44° 04.9' N 12° 34.6' E	Fl.R. period 3s fl. 1s, ec. 2s	23 7	5	Red post; 20.	Nautophone: Mo.(W) ev. 48s.
11332 E 2397	-W. mole, head.	44° 04.7' N 12° 34.5' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	23 7	8	Lamppost, black and white bands; 21.	Reserve light F.G.
11336 E 2393	-AVIATION LIGHT.	44° 01.0' N 12° 37.0' E	Al.Fl.W.G.				Occasional.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ITALY-EAST COAST							
CESENATICO:							
11340 <i>E 2404</i>	-Cesenatico.	44° 12.4' N 12° 24.1' E	Fl.(2)W. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	62 19	15	White round tower; 58.	Reserve light range 10M.
11344 <i>E 2405</i>	-E. mole, head.	44° 12.5' N 12° 24.4' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	26 8	5	Red column on platform; 20.	Horn: Mo.(R) ev. 45s
11348 <i>E 2406</i>	-W. mole, head.	44° 12.5' N 12° 24.3' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	26 8	4	Green column on platform; 20.	
11352 <i>E 2411</i>	Cervia.	44° 15.9' N 12° 21.2' E	Iso.W. period 2s	54 16	11	Polygonal tower; 52.	
11356 <i>E 2413</i>	-N. mole, head.	44° 16.2' N 12° 21.5' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	26 8	4	Green column on platform; 26.	
11360 <i>E 2412</i>	-S. mole, head.	44° 16.1' N 12° 21.2' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	26 8	4	Red column on platform; 26.	Nautophone: Mo.(U) ev. 45s.
ITALY-NORTHEAST COAST							
PORTO CORSINI (MARINA DI RAVENNA):							
11368 <i>E 7520</i>	-AGIP 1.	44° 28.4' N 12° 21.3' E	Fl.(2)W. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	85 26	5	Red tower, white stripes.	Nautophone: Mo.(O) ev. 30s.
11374	-AGIP 4.	44° 27.5' N 12° 31.3' E	Mo.(U)W. period 15s		5	Red and white checkered tower on red revolving platform, red stripes.	Nautophone: Mo.(U) ev. 30s.
	-RACON		U(••-) period 120s				
11376 <i>E 2418</i>	-Corsini.	44° 29.5' N 12° 17.1' E	Fl.W. period 5s fl. 0.2s, ec. 4.8s	115 35	20	White octagonal tower on brick dwelling; 108.	Reserve light range 18M. Traffic signals. Current signals.
11380 <i>E 2417.8</i>	-Approach beacon.	44° 30.0' N 12° 20.8' E	Fl.W. period 10s	16 5	6	SAFE WATER RW, articulated beacon, topmark.	Radar reflector.
11382 <i>E 2417.85</i>	-On wreck.	44° 29.6' N 12° 21.7' E	Fl.(2)W. period 10s		5	ISOLATED DANGER BRB, articulated beacon, topmark.	
11384 <i>E 2419</i>	-S. breakwater, head.	44° 29.6' N 12° 18.8' E	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	33 10	8	White metal column; 26.	Intensified 080°-089°. Nautophone: Mo.(O) ev. 48s (bl. 4s, si. 2s, bl. 4s, si. 2s, bl. 4s, si. 32s).
11388 <i>E 2420</i>	-N. breakwater, head.	44° 29.8' N 12° 18.8' E	Fl.(2)G. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	33 10	8	Green metal column; 26.	
11392 <i>E 2421</i>	-S. mole, head.	44° 29.5' N 12° 17.5' E	Fl.R. period 4s fl. 1.5s, ec. 2.5s	24 7	8	Red column on pedestal; 20.	Intensified 074°-083°. Nautophone: Mo.(H) ev. 45s (bl. 2s, si. 2s, bl. 2s, si. 2s, bl. 2s, si. 2s, bl. 2s, si. 31s).
11396 <i>E 2422</i>	-N. mole, head.	44° 29.6' N 12° 17.4' E	Fl.G. period 4s fl. 1.5s, ec. 2.5s	24 7	8	Green column on pedestal; 20.	

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ITALY-NORTHEAST COAST							
PORTO GARIBALDI:							
11400 E 2426	-Molo Nord, near root.	44° 40.5' N 12° 14.8' E	Fl.(4)W. period 15s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 5s	46 14	15	White round tower, on two-story dwelling; 39.	Reserve light range 8M.
11404 E 2428	--Near head.	44° 40.6' N 12° 15.0' E	Fl.G. period 5s fl. 1s, ec. 4s	30 9	8	Green column on pedestal; 23.	Nautophone: Mo.(G) ev. 48s (bl. 4s, si. 2s, bl. 4s, si. 2s, bl. 2s, si. 34s).
11408 E 2430	-Molo Sud, head.	44° 40.5' N 12° 15.0' E	Fl.R. period 5s fl. 1s, ec. 4s	30 9	8	Red column on pedestal; 23.	
11420 E 2433	--E. side of entrance.	44° 50.6' N 12° 18.3' E	Fl.G. period 3s fl. 1s, ec. 2s	26 8	3	Green beacon.	Nautophone: Mo.(K) ev. 45s (bl. 4s, si. 2s, bl. 2s, si. 2s, bl. 4s, si. 31s).
11424 E 2432	-Porto di Goro.	44° 47.0' N 12° 14.0' E	Fl.R. period 3s fl. 1s, ec. 2s	26 8	3	Red beacon.	
11428 E 2434	-Po di Goro.	44° 47.4' N 12° 23.9' E	Fl.(2)W. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	72 22	17	White tower; 80.	Reserve light range 13M.
11436 E 2440	-Punta della Maestra.	44° 58.1' N 12° 31.8' E	Fl.(3)W. period 20s fl. 0.2s, ec. 3.8s fl. 0.2s, ec. 3.8s fl. 0.2s, ec. 11.8s	154 47	25	White round tower; 148.	Aeromarine light. Reserve light range 18M. Radiobeacon.
	-RACON		P(•--•) period 30s		6		
11438 E 2441	-Beacon, 2.5 miles ESE of Punta della Maestra.	44° 57.8' N 12° 35.2' E	Q.(3)W. period 10s	13 4	6	E. CARDINAL BYB, articulated beacon, topmark.	Radar reflector.
11448 E 2443	-Porto Levante, NW. of entrance range.	45° 04.1' N 12° 20.7' E	L.Fl.W. period 6s fl. 2s, ec. 4s	180 55	12	Water tower; 171.	Visible 200°-290°.
11449 E 2443.3	--E. of Porto Levante.	45° 04.6' N 12° 23.4' E	Iso.Y. period 2s	16 5	6	SPECIAL Y, articulated beacon, topmark.	Private light.
CHIOGGIA:							
11452 E 2450	-Forte San Felice.	45° 13.8' N 12° 17.9' E	L.Fl.(2)W. period 10s fl. 2s, ec. 2s fl. 2s, ec. 4s	66 20	15	White tower; 59.	Reserve light range 11M.
11456 E 2451	--120 meters NNW. on NW. extremity of fort.	43° 13.8' N 12° 17.4' E	Fl.(2)R. period 7s fl. 1s, ec. 1s fl. 1s, ec. 4s	19 6	8	Red pedestal; 13.	Nautophone: Mo.(N) ev. 30s.
11460 E 2452	-N. breakwater, head.	45° 14.0' N 12° 18.9' E	Fl.G. period 3s fl. 1s, ec. 2s	36 11	8	Green column on pedestal; 26.	
11464 E 2453	-S. breakwater, head.	45° 13.7' N 12° 18.8' E	Fl.R. period 3s fl. 1s, ec. 2s	36 11	8	Red column on pedestal; 26.	Nautophone: Mo.(S) ev. 45s.
11468 E 2456	-N. breakwater, root.	45° 14.0' N 12° 17.0' E	Fl.(2)G. period 7s fl. 1s, ec. 1s fl. 1s, ec. 4s	31 9	8	Green column on pedestal; 23.	
11476 E 2458	-Canale San Domenico.	45° 13.4' N 12° 17.1' E	F.R.	30 9	3	Red pedestal; 26.	

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ITALY-NORTHEAST COAST							
11480 <i>E 2462</i>	Oceanographic platform.	45° 18.8' N 12° 30.8' E	Mo.(U)W. period 15s		8	Square steel platform; 40.	Nauphone: Mo.(U) 30s.
			F.R.		3		Obstruction.
11484 <i>E 2465</i>	Malamocco Approach Beacon.	45° 19.4' N 12° 23.1' E	Fl.W. period 10s fl. 1s, ec. 9s	23 7	6	SAFE WATER RW, articulated beacon, topmark.	Channel marked by articulated beacons. Radar reflector.
11488 <i>E 2464</i>	-Rochetta.	45° 20.3' N 12° 18.7' E	Fl.(3)W. period 12s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 5s	82 25	16	White tower, black stripe.	Reserve light range 11M.
11490 <i>E 2463</i>	-Fort Rocchetta. pilot tower.	45° 20.4' N 12° 18.7' E	Dir.F.W.R.G.	98 30	6	White tower on gallery; 115.	G. 285°-287°, W.-288°, R.-290°.
11492 <i>E 2464.4</i>	-Beacon.	45° 20.3' N 12° 18.8' E	Fl.(3)G. period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	20 6	7	Green beacon on pedestal.	Nauphone: Mo.(D) ev. 45s (bl. 4s, si. 2s, bl. 2s, si. 2s, bl. 2s, si. 33s).
11496 <i>E 2467</i>	-S. mole, head.	45° 19.8' N 12° 20.4' E	Fl.R. period 5s fl. 1s, ec. 4s	52 16	8	Pagoda-like structure, red bands; 46.	
11500 <i>E 2466</i>	-N. mole, head.	45° 20.0' N 12° 20.7' E	Fl.G. period 5s fl. 1s, ec. 4s	59 18	8	White tower, black stripes, on dwelling; 62.	Nauphone: Mo.(M) ev. 45s (bl. 4s, si. 2s, bl. 4s, si. 35s).
	RACON		M(- -) period 30s		6		
11504 <i>E 2468</i>	Palata delle Ceppe, S. side of entrance.	45° 20.1' N 12° 19.1' E	Fl.(3)R. period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	36 11	8	Red iron framework structure, concrete base; 33.	
PORTO DI LIDO:							
11508 <i>E 2481</i>	-Approach Beacon.	45° 23.9' N 12° 28.8' E	Fl.W. period 10s fl. 1s, ec. 9s	23 7	6	SAFE WATER RW, articulated beacon.	Fl.G. 2s and Fl.R. 2s articulated beacons mark entrance to approach channel. Radar reflector.
11516 <i>E 2480</i>	-N. breakwater, head.	45° 25.3' N 12° 26.2' E	L.Fl.(2)W. period 12s fl. 2s, ec. 2s fl. 2s, ec. 6s	85 26	15	White and black checkered pagoda-like structure, two balconies; 82.	Reserve light range 11M. Nauphone: Mo.(N) ev. 45s (bl. 4s, si. 2s, bl. 2s, si. 37s).
			Fl.(2)G. period 8s fl. 1.5s, ec. 1s fl. 1.5s, ec. 4s	46 14	7	Balcony of same structure.	
	-RACON		V(•••-) period 30s		6		(3 & 10cm)
11520 <i>E 2484</i>	-S. breakwater, head.	45° 25.1' N 12° 25.6' E	Fl.(2)R. period 8s fl. 1.5s, ec. 1s fl. 1.5s, ec. 4s	46 14	8	Octagonal tower, red bands; 46.	
11524 <i>E 2486</i>	-Entrance Range, front, at inner bend of channel.	45° 26.3' N 12° 23.4' E	Fl.W. period 3s fl. 1s, ec. 2s	43 13	11	White metal framework tower, black bands, on concrete base; 33.	
11528 <i>E 2486.1</i>	--Isola de Murano , rear, 3,164 meters 300°40' from front.	45° 27.2' N 12° 21.3' E	Oc.W. period 6s lt. 4s, ec. 2s	121 37	17	White round stone tower black and white band; 115.	Reserve light range 12M. Aeromarine light.
			Dir.Oc.W. period 6s		21		Visible 30' on either side of range line. Reserve light range 11M.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ITALY-NORTHEAST COAST							
11530 <i>E 2488.4</i>	-1st Port Articulated Beacon.	45° 25.4' N 12° 25.4' E	Fl.R. period 2s fl. 0.5s, ec. 1.5s	20 6	5	PORT (A) R, articulated beacon.	Radar reflector.
11531 <i>E 2488.5</i>	-1st Starboard Articulated beacon.	45° 25.5' N 12° 25.5' E	Fl.G. period 2s fl. 0.5s, ec. 1.5s	20 6	5	STARBOARD (A) G, articulated beacon.	Radar reflector.
11532 <i>E 2485</i>	-Beacon, 1.5 km. 315° from S. breakwater.	45° 25.6' N 12° 25.0' E	Fl.R. period 2s fl. 0.5s, ec. 1.5s	20 6	5	Hut, red and white bands.	Visible 107°-315°.
11534 <i>E 2488.7</i>	-2nd Port Articulated Beacon.	45° 25.8' N 12° 24.3' E	Fl.R. period 2s fl. 0.5s, ec. 1.5s	20 6	5	PORT (A) R, articulated beacon.	Radar reflector.
11535 <i>E 2488.8</i>	-2nd Starboard Articulated Beacon.	45° 25.9' N 12° 24.4' E	Fl.G. period 2s fl. 0.5s, ec. 1.5s	20 6	5	STARBOARD (A) G, articulated beacon.	Radar reflector.
11536 <i>E 2488</i>	--Beacon, 375 meters 080° from new semaphore station.	45° 26.0' N 12° 23.6' E	Fl.R. period 4s fl. 1s, ec. 3s	20 6	5	Concrete beacon, white and red stripes; 16.	
11540 <i>E 2490</i>	--N. side of channel.	45° 26.2' N 12° 23.2' E	Fl.G. period 4s fl. 1s, ec. 3s	20 6	5	Green hut on platform.	
11544 <i>E 2489</i>	---S. side.	45° 26.0' N 12° 23.2' E	Fl.R. period 4s fl. 1s, ec. 3s	20 6	5	Red hut on platform.	
11545 <i>E 2490.8</i>	--Articulated beacon.	45° 25.5' N 12° 22.5' E	Fl.(3)Y. period 9s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5.5s	20 6	5	SPECIAL Y, articulated beacon, topmark.	Radar reflector.
11546 <i>E 2491</i>	--Articulated beacon.	45° 25.4' N 12° 22.2' E	Fl.G. period 5s fl. 1s, ec. 4s	20 6	5	STARBOARD (A) G, articulated beacon.	Radar reflector.
-Canale di San Marco:							
11548 <i>E 2492</i>	--S. side of channel, 873 meters 006° from San Lazzaro Church.	45° 25.2' N 12° 21.8' E	Fl.(2)R. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	23 7	5	Red hut; 26.	
11556 <i>E 2504</i>	Porto di Piave Vecchia.	45° 28.7' N 12° 35.0' E	Fl.(4)W. period 24s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 14.8s	147 45	18	Round tower, black and white bands; 157.	Reserve light range 18M.
11557 <i>E 2504.2</i>	-Fiume Sile.	45° 28.7' N 12° 35.1' E	Fl.(2)G. period 6s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 3.7s	16 5	4	Green pile.	Private. Fl.(2)R. 6s shown nearby.
11558 <i>E 2505</i>	Porto di Cortellazzo, W. side Fiume Piave.	45° 31.8' N 12° 43.4' E	2 F.R. (vert.)	23 7 16 5	3	Red pedestal.	
11560 <i>E 2506</i>	Porto di Santa Margherita, W. jetty, head.	45° 35.1' N 12° 52.0' E	Fl.R. period 3s fl. 1s, ec. 2s		3	Red post; 20.	
11564 <i>E 2506.4</i>	-E. jetty, head.	45° 35.2' N 12° 52.1' E	Fl.G. period 3s fl. 1s, ec. 2s		3	Green post; 20.	
11568 <i>E 2508</i>	Caorle, church of Madonna degli Angeli.	45° 36.0' N 12° 53.7' E	Fl.(2)W. period 6s	41 12	14	Tower of church; 30.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ITALY-NORTHEAST COAST							
11572 <i>E 2518</i>	Punta Tagliamento.	45° 38.2' N 13° 05.9' E	Fl.(3)W. period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	72 22	15	White round tower on dwelling; 69.	2 F.R. (vert.) shown from pier head 4 kilometers N. Reserve light range 11M.
11574 <i>E 2519.5</i>	Lignano Sabbiadoro, approach.	45° 39.7' N 13° 09.7' E	Fl.W. period 2s	20 6	6	SAFE WATER RW, articulated beacon, topmark.	
11576 <i>E 2521</i>	Porto Lignano, pier, head.	45° 41.8' N 13° 09.2' E	Fl.R. period 2s fl. 0.5s, ec. 1.5s	23 7	8	Red hut; 20.	Visible 152°-330°. F.W. fishing light shown about 9 km. N. on Marano bridge.
11580 <i>E 2520</i>	-Beacon, about 0.5 km. 092° from pier.	45° 41.9' N 13° 09.6' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	18 5	4	Green column; 10.	Visible 343°-142°.
11584 <i>E 2520.4</i>	-Lignano Sabbiadoro, port.	45° 42.2' N 13° 08.9' E	Fl.(2)R. period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6s	33 10	4	Red post.	Visible 325°-235°.
11588 <i>E 2520.5</i>	-Starboard.	45° 42.2' N 13° 08.7' E	Fl.(2)G. period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6s	33 10	4	Green post.	Visible 200°-068°.
PORTO BUSO:							
11592 <i>E 2524</i>	-Fiume Aussa, E. side of entrance.	45° 42.8' N 13° 15.2' E	Fl.(2)G. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	26 8	4	Green structure; 21.	
11596 <i>E 2524.7</i>	-E. breakwater, head.	45° 42.3' N 13° 15.4' E	Fl.G. period 5s fl. 1s, ec. 4s	16 5	4	Green post; 7.	
11600 <i>E 2524.5</i>	-W. breakwater, head.	45° 42.3' N 13° 15.0' E	Fl.R. period 5s fl. 1s, ec. 4s	16 5	4	Red post; 7.	
11604 <i>E 2524.3</i>	-About 750 meters NNW. of E. entrance.	45° 43.1' N 13° 15.0' E	Fl.W.G. period 2s fl. 0.5s, ec. 1.5s	16 5	W. G. 2	4 Green hut on dolphin; 16.	G. shore-346°, W.-351°, G.- shore.
PORTO DI GRADO:							
11608 <i>E 2525.7</i>	-Articulated beacon.	45° 39.6' N 13° 20.8' E	Fl.W. period 10s fl. 1s, ec. 9s	16 5	6	SAFE WATER RW, topmark.	Radar reflector.
11612 <i>E 2526</i>	-Canale di Grado, W. side entrance.	45° 40.8' N 13° 22.2' E	Fl.W.R. period 3s fl. 1s, ec. 2s	16 5	W. R. 5	7 Red lantern on dolphin; 16.	R. 193°-031°, W.-036°. Nautophone: (at head of E. dike) Mo.(K) ev. 45s (bl. 4s, si. 2s, bl. 2s, si. 2s, bl. 4s, si. 31s).
11616 <i>E 2528</i>	-Junction of Canale di San Pietro d'Orio and Grado.	45° 41.0' N 13° 22.4' E	Fl.(2)R. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	16 5	4	Red post on dolphin; 20.	
11620 <i>E 2530</i>	-S. side of Canale di Grado.	45° 41.0' N 13° 22.6' E	Fl.G. period 3s fl. 1s, ec. 2s	16 5	3	Green post on dolphin; 16.	Obscured 266°-048°.
11624 <i>E 2534</i>	-Head of pier, close W. of entrance to Canale della Darsena.	45° 40.9' N 13° 23.1' E	2 F.R. (vert.)	23 7 16 5	3	Red mast; 16.	
11628 <i>E 2536</i>	-Canale di Belvedene, E. side.	45° 41.0' N 13° 23.2' E	F.G.	23 7	3	Green column; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ITALY-NORTHEAST COAST							
11630 <i>E 2537.5</i>	End of pipeline.	45° 40.2' N 13° 23.8' E	Fl.Y. period 3s fl. 0.3s, ec. 2.7s	20 6	4 Post.		Radar reflector.
11632 <i>E 2538</i>	Branco Molo di Muggia, beacon, near bank, S. head.	45° 39.3' N 13° 26.4' E	Q.(6)+L.Fl.W. period 15s	23 7	6 S. CARDINAL YB, topmark.		Radar reflector.
11634 <i>E 2540</i>	Punta Sdobba shoal.	45° 43.3' N 13° 34.2' E	Fl.R. period 5s fl. 1s, ec. 4s	23 7	4 White truncated conical tower and gallery, red bands; 23.		
11635 <i>E 2543</i>	-Articulated beacon.	45° 44.9' N 13° 35.6' E	Fl.W. period 10s fl. 1s, ec. 9s	16 5	6 SAFE WATER RW, topmark.		Radar reflector.
11636 <i>E 2544</i>	-W. side of channel.	45° 45.2' N 13° 35.0' E	Fl.(2)R. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	20 6	4 Red beacon; 20.	W. side of channel marked by 2 lights Fl.R. 5s 5M, Fl.(2)R. 10s 5M.	Radar reflector.
11640 <i>E 2545</i>	--E. side.	45° 45.3' N 13° 35.3' E	Fl.(2)G. period 6s	20 6	4 Green beacon; 20.	E. side of channel marked by 2 lights Fl.G. 5s 5M, Fl.(2)G. 10s 5M.	Radar reflector.
11644 <i>E 2548</i>	Duino, mole, head.	45° 46.3' N 13° 36.0' E	2 F.G. (vert.)	23 7 16 5	3 Green column; 20.		
11648 <i>E 2547</i>	-Canale San Giovanni, about 0.5 mile NW. of Duino.	45° 46.5' N 13° 35.4' E	Fl.(2)G. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	16 5	4 Green column; 7.		
11652 <i>E 2550</i>	Sistiana, head of W. breakwater.	45° 46.0' N 13° 37.7' E	2 F.R. (vert.)	26 8 20 6	3 Red mast; 25.		
11656 <i>E 2551</i>	-E. breakwater, head.	45° 46.0' N 13° 38.0' E	2 F.G. (vert.)	24 7 19 6	3 Green mast; 24.	F.G. 3M marks head of mole 2.4 miles SE.	
11660 <i>E 2553</i>	Santa Croce di Trieste, boat basin mole, head.	45° 43.5' N 13° 41.4' E	2 F.G. (vert.)	24 7 18 5	3 Gray iron post; 16.		
11664 <i>E 2554</i>	Valle Grignano, pier, head.	45° 42.4' N 13° 42.8' E	F.G.	20 6	3 Red column; 16.	Visible 127°-307°.	
11668 <i>E 2555</i>	Cedas breakwater, head.	45° 41.6' N 13° 44.3' E	F.G.	23 7	4 Lamppost on green pedestal; 16.		
11670 <i>E 2556</i>	Barcola.	45° 41.0' N 13° 45.0' E	2 F.G. (vert.)	26 8 20 6	4 Green mast; 23.	Private.	
PORTO DI TRIESTE:							
11676 <i>E 2558</i>	-Vittoria.	45° 40.5' N 13° 45.5' E	Fl.(2)W. period 10s fl. 0.2s, ec. 1.8s fl. 0.2s, ec. 7.8s	378 115	22 White round stone tower surmounted by a bronze figure; 223.	Reserve light range 18M. Signal station. Radiobeacon.	
-Porto Franco Vecchio:							
11680 <i>E 2560</i>	--Detached breakwater, S. head.	45° 39.3' N 13° 45.8' E	Fl.R. period 3s	23 7	8 Column on red hut; 23.		
11684 <i>E 2561</i>	--Spur, head.	45° 39.7' N 13° 45.5' E	2 F.G. (vert.)	23 7 20 6	3 Column on green hut; 16.	Obscured 040°-130°.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ITALY-NORTHEAST COAST							
11688 <i>E 2562</i>	--Detached breakwater, N. head.	45° 39.8' N 13° 45.5' E	Fl.G. period 3s	26 8	8	Green hut; 7.	
11692 <i>E 2569</i>	--Angle of Molo Fratelli Bandiera.	45° 39.0' N 13° 45.2' E	Fl.G. period 5s fl. 1s, ec. 4s	21 6	3	Green column; 18.	Visible 044°-266°.
11696 <i>E 2568</i>	--Molo Fratelli Bandiera Breakwater, head.	45° 38.9' N 13° 45.1' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	21 6	5	White column; 13.	Visible 222°-190°.
11700 <i>E 2565</i>	--Breakwater, E. head.	45° 39.0' N 13° 45.6' E	2 F.G. (vert.)	25 8 20 6	3	Green mast; 20.	
11704 <i>E 2566</i>	-Molo Venezia, head.	45° 38.9' N 13° 45.7' E	2 F.R. (vert.)	20 6 13 4	3	Red metal column.	
11706 <i>E 2557</i>	-Outfall.	45° 38.7' N 13° 40.9' E	Fl.Y. period 3s fl. 0.5s, ec. 2.5s	16 5	5	SPECIAL Y, articulated beacon.	Private light. Radar reflector.
-Emanuele Filiberto Duca d'Acosta Basin:							
11708 <i>E 2576</i>	--N. detached breakwater, N. head.	45° 38.5' N 13° 44.4' E	Fl.(2)G. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	26 8	5	Green column on pedestal; 23.	
11712 <i>E 2578</i>	---S. head.	45° 38.3' N 13° 44.4' E	Fl.R. period 3s fl. 1s, ec. 2s	20 6	8	White column on red hut; 16.	
	--RACON		TS(- •••) period 30s		6		
11716 <i>E 2588</i>	--Mole 5, NW. corner.	45° 38.4' N 13° 44.6' E	F.G.	23 7	4	Green post; 16.	
11717 <i>E 2588.2</i>	---SW. corner.	45° 38.4' N 13° 44.7' E	F.R.	23 7	4	Red post; 16.	
11724 <i>E 2580</i>	--Middle detached breakwater, N. head.	45° 38.2' N 13° 44.3' E	Fl.G. period 3s fl. 1s, ec. 2s	31 9	5	Green framework tower on pedestal; 23.	
11728 <i>E 2582</i>	--Middle detached breakwater, S. head.	45° 37.9' N 13° 44.4' E	Iso.R. period 2s	31 9	5	Red framework tower on pedestal; 23.	Visible 198°-148°.
11732 <i>E 2586</i>	-Diga Luigi Rizzo, N. head.	45° 37.8' N 13° 44.2' E	Iso.G. period 2s	21 6	5	Green column; 16.	Visible 018°-328°.
11736 <i>E 2587</i>	--S. head.	45° 37.0' N 13° 44.4' E	Fl.(3)R. period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	30 9	5	Red metal framework tower on pedestal; 23.	Nautophone: Mo(U) ev. 30s
11744 <i>E 2592</i>	-Molo dei Legnami.	45° 37.7' N 13° 46.5' E	2 F.G. (vert.)	26 8 23 7	3	Green post; 16.	
11748 <i>E 2593</i>	-Servola, Banchina Italsider, NW. corner.	45° 37.2' N 13° 46.6' E	2 F.R. (vert.)	26 8	3	Red mast; 16.	
SAN SABBA:							
11752	-Approach Bell Buoy.	45° 37.0' N 13° 43.0' E	Fl.W. period 2s			SAFE WATER RW, pillar, topmark.	Marks SW. limit of tanker anchorage. Bell. Radar reflector.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ITALY-NORTHEAST COAST							
11756 <i>E 2601</i>	-Trieste-Ingolstadt pipeline terminal, San Sabba, W. mole, head.	45° 36.7' N 13° 47.0' E	2 F.R. (vert.)	26 8 20 6	3	Red mast; 10.	
11760 <i>E 2598</i>	--Finger Pier "I", head.	45° 36.6' N 13° 46.6' E	F.R.G. (vert.)	26 8 23 7	3	Red mast, green bands; 18.	
11764 <i>E 2597</i>	--Finger Pier "II", head.	45° 36.7' N 13° 46.4' E	F.G.R. (vert.)	26 8 23 7	3	Red mast, green bands; 18.	
11768 <i>E 2597.2</i>	--Finger Pier "II", root.	45° 36.8' N 13° 46.7' E	F.G.	20 6	3	Green post; 10.	Visible 298°-118°.
11772 <i>E 2601.4</i>	--Head of pier about 220 yards ESE. of San Sabba Mole.	45° 36.6' N 13° 47.2' E	2 F.G. (vert.)	26 8 20 6	3	Green mast.	
BAIA DI MUGGIA:							
11776 <i>E 2603</i>	-Porto Industriale Entrance Range, front.	45° 36.7' N 13° 48.8' E	F.R.	34 10	10	Aluminum mast; 30.	Visible 5°30' on each side of range line.
11780 <i>E 2603.1</i>	--Rear, 150 meters 063°47' from front.	45° 36.8' N 13° 48.9' E	F.R.	43 13	10	Aluminum mast; 39.	Visible 5°30' on each side of range line.
11784 <i>E 2602.2</i>	-Petroli Aquila Pier, head.	45° 36.3' N 13° 47.6' E	F.R.	20 6	3	Red mast; 13.	
11788 <i>E 2602</i>	--E. arm, head.	45° 36.3' N 13° 47.6' E	F.G.	21 6	3	Green mast; 13.	
11792 <i>E 2595</i>	-Muggia, E. mole, head.	45° 36.4' N 13° 45.9' E	2 F.R. (vert.)	23 7 20 6	3	Red column; 16.	
11796 <i>E 2596</i>	--W. mole, head.	45° 37.7' N 13° 46.5' E	2 F.G. (vert.)	23 7 20 6	3	Green column; 16	
11800 <i>E 2604</i>	-Zaule, pier.	45° 36.5' N 13° 48.2' E	2 F.G. (vert.)	22 7 20 6	3	Green mast; 16.	
11808 <i>E 2605</i>	-Jetty, head.	45° 35.7' N 13° 43.4' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	21 6	3	Red column; 16.	
SLOVENIA							
KOPERSKI ZALIV:							
11812 <i>E 2607</i>	-Plicina Debeli, 0.5 km. W. of Rt Debeli.	45° 35.5' N 13° 42.0' E	Q.(9)W. period 15s	26 8	8	W. CARDINAL YBY, tower, topmark; 16.	
-Koper:							
11828 <i>E 2614</i>	--Old port, N. mole, head.	45° 33.0' N 13° 43.4' E	Fl.(2)R. period 10s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 6.5s	22 7	4	Red iron column; 17.	Fl.R. 5s 7m 3M and Fl.(2)G. 5s 7m 3M shown from port 0.2 mile NE.
11832 <i>E 2612</i>	---S. mole, head.	45° 33.0' N 13° 43.6' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	20 6	3	White iron column; 19.	Obscured in N. portion of port.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SLOVENIA							
11834 <i>E 2608</i>	--Valdoltra wharf.	45° 34.8' N 13° 43.5' E	Fl.(2)R. period 6s	16 5	4	Red tower; 13.	
	-Izola:						
11836 <i>E 2618</i>	--Rt Petelin.	45° 32.5' N 13° 39.4' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	23 7	6	White iron support with ladder; 20.	
11840 <i>E 2620</i>	--N. mole, head.	45° 32.3' N 13° 39.3' E	Fl.R. period 3s fl. 1s, ec. 2s	20 6	3	White round tower; 17.	Unreliable during NE. gales.
11844 <i>E 2622</i>	--S. mole, head.	45° 32.2' N 13° 39.2' E	Fl.(2)R. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	20 6	3	Red tower; 17.	
	PIRANSKI ZALIV:						
	-Piran:						
11848 <i>E 2624</i>	--Rt Madona, N. entrance to bay.	45° 31.7' N 13° 33.8' E	Iso.W. period 4s	33 10	15	Gray octagonal tower on hut; 30.	Visible 351°-253°.
11852 <i>E 2630</i>	--Head of transverse mole, S. side of entrance.	45° 31.5' N 13° 34.0' E	Fl.G. period 3s	21 6	4	Brick tower; 23.	
11856 <i>E 2628</i>	--Head of mole, N. side of entrance.	45° 31.5' N 13° 34.0' E	Fl.R. period 3s	21 6	3	Red round tower with mast and gallery.	
	-Uvala Portoroz:						
11860 <i>E 2632</i>	--Rt Sveti Bernard, mole, head.	45° 30.9' N 13° 34.4' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	30 9	3	Red conical metal tower; 26.	
11864 <i>E 2634</i>	--Mole, head.	45° 30.7' N 13° 35.3' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	23 7	6	White iron lamppost with ladder; 18.	

Section 9

Croatia

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CROATIA							
11868 <i>E 2642</i>	Rt Savudrija.	45° 29.4' N 13° 29.4' E	Fl.(3)W. period 15s fl. 0.5s, ec. 3.2s fl. 0.5s, ec. 3.3s fl. 0.5s, ec. 7s	118 36	30	White round masonry tower, gray cupola; 95.	Reserve light range 12M. Siren: 2 bl. ev. 42s.
11870 <i>E 2643</i>	Stara Savudrija.	45° 30.2' N 13° 30.0' E	Fl.(2)R. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 7	4	White tower; 16.	Visible 090°-163°, 264°-304°.
LUKA UMAG:							
11872 <i>E 2644</i>	-Plicina Paklena, on W. edge of shoal.	45° 26.5' N 13° 30.3' E	Fl.(2)W.R. period 8s fl. 0.5s, ec. 2s fl. 0.5s, ec. 5s	33 10	W. 8 R. 6	Red round metal tower, stone base; 19.	W. 347°-165°, R.-347°.
11876 <i>E 2646</i>	-Mole, head.	45° 26.2' N 13° 30.9' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	29 9	4	Green round iron tower with pillar and balcony; 21.	Visible 000°-315°.
11880 <i>E 2648</i>	-Inner mole, head.	45° 25.9' N 13° 31.2' E	Fl.W. period 3s	26 8	4	White rectangular iron tower with pillar and balcony; 23.	Visible 136°-006°.
11884 <i>E 2649</i>	-Mole, head.	45° 25.4' N 13° 31.3' E	F.G.	30 9	4	Green pillar; 16.	Visible 088°-358°.
11888 <i>E 2652</i>	Dajla, mole, head.	45° 21.6' N 13° 33.2' E	F.R.	23 7	1	Red column; 3.	
LUKA NOVIGRAD:							
11892 <i>E 2654</i>	-Breakwater, head.	45° 19.1' N 13° 33.5' E	L.Fl.W.R.G. period 5s fl. 2s, ec. 3s	23 7	W. 8 R. 5 G. 6	White octagonal tower.	G. 117°-003°, W.-025°, R.-058°, W.-117°.
11896 <i>E 2655</i>	-Mole, head.	45° 19.2' N 13° 33.7' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	23 7	3	White iron tower; 19.	
11900 <i>E 2656</i>	-Boat harbor, mole, head.	45° 19.1' N 13° 33.8' E	F.G.	17 5	3	Black iron lamppost; 15.	
11904 <i>E 2658</i>	Rt.	45° 17.9' N 13° 34.2' E	Fl.(3)W.R. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 4.5s	36 11	W. 9 R. 6	Window of keeper's dwelling; 22.	R. 325°-018°, W.-325°.
11905 <i>E 2660</i>	Plicina Civran, NW. side.	45° 16.9' N 13° 34.3' E	Q.W.	23 7	5	N. CARDINAL BY, beacon, topmark.	
11906 <i>E 2660.2</i>	-SW. side.	45° 16.5' N 13° 34.0' E	Q.(9)W. period 15s	23 7	5	W. CARDINAL YBY, beacon, topmark.	
POREC:							
11908 <i>E 2662</i>	-Hrid Barbaran, N. of entrance to port.	45° 13.7' N 13° 35.1' E	Fl.W.R. period 5s fl. 0.5s, ec. 4.5s	30 9	W. 8 R. 5	Red iron tower with pillar and balcony; 28.	R. 011°-062°, W.-153°, R.-308°, W. elsewhere.
11912 <i>E 2663</i>	-N. point of Otoc Sv. Nikola, mole, head.	45° 13.7' N 13° 35.1' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	23 7	5	White round concrete tower with green cupola; 20.	Visible 074°-023°.

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CROATIA							
11914	-Athletic field, SW. head.	45° 13.7' N 13° 35.4' E	Fl.(2)R. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	20 6	4	Red tower; 16.	Visible 314°-130°.
11920 <i>E 2665</i>	-Mole, head.	45° 13.6' N 13° 35.5' E	F.G. period 3s fl. 0.5s, ec. 2.5s	22 7	3	White round concrete tower; 18.	
11924 <i>E 2670</i>	Crlenazemja, mole, head.	45° 10.6' N 13° 36.0' E	F.R.	16 5	3	Red pillar.	
11928 <i>E 2668</i>	Otocic Visoki (Altijez), on summit of islet.	45° 11.9' N 13° 34.1' E	Fl.(3)W. period 10s	29 9	8	White iron structure, red bands, tank; 20.	
11932 <i>E 2672</i>	Plicina Mramori, on the S. shoal.	45° 08.8' N 13° 34.3' E	Fl.(2)R. period 8s fl. 0.5s, ec. 2s fl. 0.5s, ec. 5s	43 13	7	Red round iron tower with pillar and balcony; 42.	
11936 <i>E 2674</i>	Otocic Galiner, entrance to Vrsar.	45° 09.3' N 13° 35.7' E	Fl.W. period 2s fl. 0.3s, ec. 1.7s	67 20	5	Red iron skeleton structure; 33.	Visible 185°-025°, obsc.-049°, vis.-064°, obsc.-099°, vis.-116°, obscured elsewhere.
11940 <i>E 2676</i>	Vrsar, mole, head.	45° 08.9' N 13° 36.1' E	Fl.(2)W. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	21 6	4	White round tower with column and gallery; 16.	Visible 072°-000°.
ROVINJ:							
11944 <i>E 2680</i>	-Rt Sveta Eufemija.	45° 05.0' N 13° 37.8' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	62 19	7	White square masonry tower; 25.	
11948 <i>E 2684</i>	-Juzna Luka, breakwater, head.	45° 04.8' N 13° 38.1' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Red iron tower, post; 20.	
11952 <i>E 2686</i>	--Mole, head.	45° 04.5' N 13° 38.2' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7	4	White iron tower, post; 20.	
11956 <i>E 2682</i>	-Sjeverna Luka, quay.	45° 05.1' N 13° 38.2' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Green tower with column and gallery; 20.	
11960 <i>E 2690</i>	Hrid Sveti Ivan na Pucini.	45° 02.5' N 13° 36.9' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 6.5s	75 23	24	Masonry tower, dwelling; 49.	Reserve light range 12M. Siren: 1 bl. ev. 30s.
11968 <i>E 2712</i>	-Fazana, N. mole, head.	44° 55.7' N 13° 48.1' E	Fl.R. period 2s fl. 0.5s, ec. 1.5s	25 8	2	Red iron lamppost; 18.	
11972 <i>E 2692</i>	-Kabula, on the rock N. side of Brioniski Otoci.	44° 56.7' N 13° 42.6' E	Q.W.	32 10	9	N. CARDINAL BY, beacon, topmark.	
11976 <i>E 2696</i>	-Saluga, on shoal, NE. side of Otok Veliki Brioni.	44° 55.2' N 13° 46.8' E	Fl.(2)W.R. period 8s fl. 0.5s, ec. 2s fl. 0.5s, ec. 5s	26 8	6	Red round metal tower, column and gallery on stone base; 20.	R. 130°-142°, W.-130°.
11980 <i>E 2694</i>	-Brioni (Brijuni), N. mole, head.	44° 55.1' N 13° 46.3' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	20 6	4	Green iron tower; 19.	
11988 <i>E 2700</i>	-Kotez, on shoal, S. side of channel.	44° 54.4' N 13° 47.7' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	22 7	6	Green concrete tower; 24.	
11992 <i>E 2706</i>	-Otok Sveti Jerolim, W, point.	44° 54.0' N 13° 47.1' E	Fl.W. period 2s fl. 0.3s, ec. 1.7s	33 10	5	Black iron framework structure; 23.	Visible 349°-221°.
11996 <i>E 2710</i>	-Rt Pinida, S. point of Brionski Otoci.	44° 53.3' N 13° 45.4' E	Iso.W. period 4s	66 20	11	Square tower, dwelling attached; 49.	Visible 238°-114°. Signal station.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CROATIA							
LUKA PULA:							
12000 <i>E 2718</i>	-Rt Kristo, NE. side of entrance.	44° 53.5' N 13° 47.7' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	33 10	5	Square stone tower, red top; 16.	Signal station.
12004 <i>E 2720</i>	-Rt Kumpare, breakwater, head.	44° 53.2' N 13° 47.5' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	30 9	6	Green round tower; 15.	
12008 <i>E 2721</i>	-Otocic Sveta Katerina, S. side.	44° 52.5' N 13° 49.5' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	23 7	1	Red round iron tower; 16.	
12012 <i>E 2721.2</i>	--About 80 meters ENE.	44° 52.4' N 13° 49.8' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	23 7	1	Red round iron tower; 16.	
12016 <i>E 2724</i>	-Otocic Sveti Andrija, N. side.	44° 52.4' N 13° 49.5' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	23 7	1	Green round iron tower; 16.	
12020 <i>E 2726</i>	-Otocic Sveti Andrija, S. side.	44° 52.2' N 13° 49.6' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	17 5	4	Red square hut with gallery and white post; 16.	
12024 <i>E 2728</i>	-Commercial port, Gat Rijeka.	44° 52.5' N 13° 50.9' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	23 7	3	White iron column on round hut; 20.	Oc.R. lights shown from radio masts 1.2 km. N.
12028 <i>E 2730</i>	--Gat Istra.	44° 52.4' N 13° 50.8' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	26 8	3	Red iron structure; 24.	
12032 <i>E 2727</i>	-Otocic Uljanik, NE. of fort.	44° 52.6' N 13° 50.4' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	19 6	3	Green iron column on concrete hut; 16.	
12036 <i>E 2734</i>	Rt Verudica, Luka Veruda, entrance, N. side.	44° 50.0' N 13° 50.0' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	36 11	6	Red tower on corner of house; 26.	
12040 <i>E 2738</i>	Hrid Porer.	44° 45.5' N 13° 53.6' E	Fl.(3)W. period 15s fl. 0.3s, ec. 2.7s fl. 0.3s, ec. 2.7s fl. 0.3s, ec. 8.7s	115 35	25	Masonry tower, dwelling; 102.	Visible 255°-147°. Reserve light range 12M. Siren: 2 bl. ev. 42s. (bl. 4s, si. 4s, bl. 4s, si. 30s). Radiobeacon 1.8 miles NNE.
RACON			M(—) period 120s		20		
KVARNER WEST:							
12048 <i>E 2742</i>	-Plicina Albanez.	44° 44.1' N 13° 54.2' E	Fl.(2)W.R. period 8s fl. 0.5s, ec. 2s fl. 0.5s, ec. 5s	49 15	W. 10 R. 6	White concrete tower on conical base; 48.	R. 172°-227°, W.-172°.
12052 <i>E 2738.2</i>	-Hrid Porer, rock, S. head.	44° 45.0' N 13° 54.0' E	Iso.W.R.G. period 6s	39 12	W. 11 R. 7 G. 7	White post and gallery; 6.	W. 258°-326°, R.-352°, G.-163°, obscured elsewhere. Lighted when Plicina Albanez is extinguished.
12054	Platform "Ivana A".	44° 44.7' N 13° 17.6' E	Mo.(U)W. period 15s fl. 0.4s, ec. 0.5s fl. 0.4s, ec. 0.5s fl. 1.2s, ec. 12s	56 17	10		Nautophone: Mo.(U) ev. 30s. (bl. 0.75s, si. 1s, bl. 0.75s, si. 1.25s, bl. 2.5s, si. 24s).
12054.2	-"Ivana B".	44° 41.2' N 13° 12.8' E	Mo.(U)W. period 15s fl. 0.4s, ec. 0.5s fl. 0.4s, ec. 0.5s fl. 1.2s, ec. 12s	74 22	10		Nautophone: Mo.(U) ev. 30s. (bl. 0.75s, si. 1s, bl. 0.75s, si. 1s, bl. 2.5s, si. 24s).

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CROATIA							
12054.5	--Ivana D".	44° 47.0' N 13° 15.5' E	Mo.(U)W. period 15s fl. 0.4s, ec. 0.5s fl. 0.4s, ec. 0.5s fl. 1.2s, ec. 12s	74 22	10		Nautophone: Mo.(U) ev. 30s (bl. 0.75s, si. 1s, bl. 0.75s, si. 1s, bl. 2.5s, si. 24s).
12054.6	--Ivana E".	44° 44.7' N 13° 14.5' E	Mo.(U)W. period 15s fl. 0.4s, ec. 0.5s fl. 0.4s, ec. 0.5s fl. 1.2s, ec. 12s	74 22	10		Nautophone: Mo.(U) ev. 30s (bl. 0.75s, si. 1s, bl. 0.75s, si. 1s, bl. 2.5s, si. 24s).
	-Medulinski Zaliv:						
12056 E 2748	--Rt Munat Skrajni.	44° 48.2' N 13° 55.4' E	Fl.W.R. period 2s fl. 0.3s, ec. 1.7s	29 9	W. 7 R. 4	Red iron tower; 18.	W. 312°-327°, R.-312°.
12060 E 2750	--Rt Marlera.	44° 48.2' N 14° 00.2' E	Fl.W. period 9s fl. 0.5s, ec. 8.5s	69 21	9	Square tower on side of dwelling; 31.	Visible 186°-038°.
12064 E 2751	--Rt Seka, on shoal.	44° 53.7' N 14° 01.1' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	23 7	3	Green tower with column and gallery on white base; 13.	
	-Zaliv Rasa:						
12068 E 2768	--Rt Ubac (Ubac), entrance, E. side.	44° 56.7' N 14° 04.0' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	52 16	8	White iron tower; 16.	Visible 270°-184°.
12072 E 2769	--Rt Mulac, entrance, W. side.	44° 57.0' N 14° 03.3' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	69 21	3	Red round iron tower; 26.	
12076 E 2770	--Rt Kucica.	44° 58.2' N 14° 04.5' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	26 8	3	Red octagonal concrete tower, white base; 9.	
12080 E 2772	--Rt Sveti Mikula.	44° 58.8' N 14° 04.6' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	29 9	1	Red concrete hut, white base; 19.	
12084 E 2773	--Uvala Tunarica.	44° 58.5' N 14° 05.9' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	23 7	1	Red iron tower; 17.	
12088 E 2774	--Rt Prascarica.	44° 59.4' N 14° 04.3' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	26 8	1	Red iron tower; 16.	
12092 E 2776	--Uvala Teplica, W. point.	45° 00.2' N 14° 03.5' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	30 9	1	Gray concrete hut; 21.	
12096 E 2780	--Trget, inlet, W. point.	45° 01.4' N 14° 03.3' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	23 7	3	White iron tower; 16.	
12100 E 2782	--Rt Crna Punta.	44° 57.4' N 14° 08.8' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	49 15	10	White round tower on house; 16.	Visible 245°-104°.
12102 E 2783	--Skvaranska.	44° 59.2' N 14° 10.4' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	33 10	10	White tower with gallery; 16.	
	-Luka Rabac:						
12104 E 2794	--Rt Sveti Andrija.	45° 04.4' N 14° 10.0' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	33 10	6	Square stone tower; 13.	
12108 E 2798	--Quay.	45° 04.7' N 14° 09.7' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	20 6	2	Green tower with pillar and gallery; 16.	Visible 350°-270°.

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CROATIA							
12110	Rt. Masnjak.	45° 07.0' N 14° 12.3' E	Fl.(2)W. period 8s		8		Visible 307°-106°.
12112 E 2789	Uvala Brestova, cove, head.	45° 09.0' N 14° 13.9' E	Fl.G. period 2s fl. 0.5s, ec. 1.5s	23 7	4	White round iron tower, gallery; 16.	
KVARNER EAST:							
12116 E 2744	-Hrid Galiola.	44° 43.8' N 14° 10.8' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	69 21	12	Octagonal stone tower; 59.	
	-RACON		K(- • -) period 40s		20		
	-Otok Unije:						
12120 E 2752	--Rt Vnetak.	44° 37.2' N 14° 14.4' E	Fl.(3)W.R. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	56 17	W. 10 R. 7	White round tower on house; 43.	W. 270°-158°, R.-176°.
12124 E 2754	--Luka Unije, mole, head.	44° 38.2' N 14° 14.8' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	20 6	3	Red iron tower; 18.	Visible 093°-146°.
12128 E 2756	--Rt Lakunji.	44° 41.3' N 14° 17.1' E	Fl.(4)W. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	26 8	8	White iron tower with post.	
12132 E 2760	-Otocic Zecevo, SW. point.	44° 45.9' N 14° 18.2' E	Fl.(2)W.R. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	43 13	W. 8 R. 6	Square stone tower; 26.	W. 194°-176°, R.-194°.
12136 E 2761	-Otocic Visoki, NW. side.	44° 46.6' N 14° 20.9' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	39 12	6	Octagonal stone tower; 26.	
	-Otok Cres:						
12140 E 2758	--Uvala Bijar.	44° 41.9' N 14° 23.7' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	20 6	4	Red iron tower with post; 16.	Visible 116°-106°.
12144 E 2759	--Osor, mole.	44° 41.7' N 14° 23.6' E	Fl.R. period 1.5s fl. 0.3s, ec. 1.2s	23 7	3	Red metal tower; 16.	
12148 E 2762	--Martinscica, mole, head.	44° 49.1' N 14° 21.3' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	23 7	3	Red iron lamppost; 18.	
12152 E 2764	--Hrid Zaglav.	44° 55.3' N 14° 17.6' E	Fl.(3)W. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	65 20	10	Square tower on dwelling; 49.	
12154	--Sika, rock.	44° 49.1' N 13° 59.9' E	Fl.(2)R. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	26 8	4	Red tower; 23.	Obscured 340°-112°.
	--Luka Cres:						
12156 E 2784	---Rt Kovacine, entrance, N. side.	44° 57.6' N 14° 23.7' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	29 9	8	Red stone round tower; 20.	Visible 297°-185°.
12160 E 2792	---Luka Cres, on Rt Krizice.	44° 57.4' N 14° 23.7' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	29 9	4	Green octagonal concrete tower; 20.	

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CROATIA							
12164 <i>E 2788</i>	--Rt Melin.	44° 57.4' N 14° 24.5' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	19 6	3	Red iron lamppost; 19.	
12168 <i>E 2790</i>	--New mole, head.	44° 57.5' N 14° 24.8' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	23 7	2	White iron lamppost; 16.	
12172 <i>E 2802</i>	--Rt Prestenice, Kanal Vela Vrata, E. entrance point.	45° 07.2' N 14° 16.7' E	L.Fl.W. period 10s fl. 2s, ec. 8s	56 17	10	Square tower on two-story dwelling; 43.	Visible 350°-205°.
12176 <i>E 2799.4</i>	--Rt Sip.	45° 10.8' N 14° 14.5' E	Fl.R. period 5s	72 22	8	Framework tower; 16.	
12180 <i>E 2799.2</i>	C. Brestova.	45° 08.3' N 14° 13.5' E	Fl.(2)R. period 12s	131 40	13	Framework tower; 16.	
12184 <i>E 2799.6</i>	--Banja, NE. entrance point of Kanal Vela Vrata.	45° 09.9' N 14° 18.2' E	Fl.G. period 4s	23 7	8	Green tower with gallery; 16.	
12188 <i>E 2801</i>	--Livala Porozina, mole, head.	45° 08.0' N 14° 17.0' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Red iron tower; 16.	
KANAL SREDNJA VRATA:							
-Otok Cres:							
12192	--Beli, mole, head.	45° 06.0' N 14° 21.0' E	F.R.	21 6	5	Red iron lamppost; 18.	Unreliable during SE. gales.
12196 <i>E 2873</i>	--Rt Tarej.	44° 57.3' N 14° 29.5' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	26 8	6	Red round tower, concrete base; 16.	
RIJECKI ZALIV:							
12200 <i>E 2804</i>	-Moscenice, quay, SE. corner.	45° 14.2' N 14° 15.1' E	F.G.	23 7	3	White iron lamppost; 16.	
12204 <i>E 2810</i>	-Lovran, S. breakwater, head.	45° 17.4' N 14° 17.1' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	26 8	4	White iron tower; 23.	
12208 <i>E 2812</i>	-Ika, mole, N. head.	45° 18.2' N 14° 17.3' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	23 7	2	Red iron column; 19.	
12212 <i>E 2816</i>	-Opatija, mole, head.	45° 20.2' N 14° 19.0' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	23 7	6	Red tower with column and gallery; 20.	Visible 137°-354°.
12216 <i>E 2817</i>	--Marina, breakwater, head.	45° 19.6' N 14° 18.3' E	Fl.(2)R. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 7	4	Red turret with post and gallery; 16.	
12220 <i>E 2818</i>	-Volosko, S. mole, head.	45° 20.9' N 14° 19.7' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	23 7	3	Red round tower; 49.	
12224 <i>E 2820</i>	--N. mole, head.	45° 21.0' N 14° 19.0' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	23 7	3	White iron column; 16.	
12226 <i>E 2829</i>	-Petrolejska.	45° 20.0' N 14° 24.7' E	Fl.G. period 5s	26 8	4	Green iron tower with pillar and gallery.	
12228 <i>E 2822</i>	-Mlaka.	45° 20.0' N 14° 25.6' E	Fl.W. period 10s fl. 0.7s, ec. 9.3s	128 39	15	White concrete tower on white two story building, black stripes; 125.	Reserve light range 12M.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CROATIA							
-Luka Rijecka:							
12232 <i>E 2830</i>	--Brgud, S. breakwater, head.	45° 20.0' N 14° 25.0' E	Fl.G. period 2s fl. 0.5s, ec. 1.5s	33 10	4	White metal tower; 11.	
12240 <i>E 2824</i>	--Breakwater "Generala Petra Drapsina", head.	45° 20.0' N 14° 25.0' E	Q.(3)G. period 5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 2.5s	49 15	5	Green metal framework tower; 46.	
12244 <i>E 2828</i>	--Mole "Lole Ribara", head.	45° 19.8' N 14° 25.3' E	Q.(3)R. period 5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 2.5s	30 9	4	Red column on iron tower; 23.	
-Susak:							
12248 <i>E 2842</i>	--Detached breakwater, S. side.	45° 19.0' N 14° 27.0' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	29 9	3	Green iron tower; 23.	
12252 <i>E 2840</i>	---N. side.	45° 19.0' N 14° 27.0' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	23 7	2	Red square iron tower red base; 24.	
12254 <i>E 2843</i>	-RoRo berth.	45° 19.3' N 14° 27.1' E	Fl.W. period 3s	23 7	4	White tower; 20.	
12256 <i>E 2844</i>	-Luka Marinscica, E. breakwater, head.	45° 18.7' N 14° 28.7' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	38 12	3	Round metal tower; 16.	
KVARNER:							
12260 <i>E 3036</i>	-Otok Susak.	44° 30.8' N 14° 18.3' E	L.Fl.(2)W. period 10s fl. 2s, ec. 2s fl. 2s, ec. 4s	328 100	19	Square tower, dwelling; 39.	Reserve light range 8M.
12264 <i>E 3038</i>	-Uvala Dragoca, N. breakwater, head.	44° 30.8' N 14° 18.9' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	23 7	3	White iron post, masonry base; 16.	
12268 <i>E 3034</i>	-Hrid Silo, Otok Srakane Male, SE.	44° 33.5' N 14° 21.6' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	36 11	5	Hexagonal masonry tower; 33.	
12272 <i>E 3042</i>	-Otocic Sveti Petar, Otok Losinj, SW.	44° 27.6' N 14° 33.6' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	23 7	5	White iron tower; 16.	Visible 115°-128°, 285°-320°.
12273 <i>E 3043</i>	-Otok Ilovik.	44° 27.7' N 14° 33.2' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	23 7	3	White tower with column and gallery; 16.	
-Otok Losinj:							
12276 <i>E 3032</i>	--Rt Kurila.	44° 33.7' N 14° 22.4' E	Fl.W.R. period 5s fl. 0.5s, ec. 4.5s	36 11	W. 8 R. 6	Octagonal stone tower; 26.	W. 189°-175°, R.-189°.
--Luka Mali Losinj:							
12280 <i>E 3022</i>	---Otocic Murtar, SW. point.	44° 33.0' N 14° 25.2' E	L.Fl.W. period 8s fl. 2s, ec. 6s	30 9	8	Octagonal tower, house; 29.	
12284 <i>E 3023</i>	---Otocic Zabodaski, W. side.	44° 33.1' N 14° 24.2' E	Fl.(2)R. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	39 12	4	Square stone tower; 19.	
12288 <i>E 3024</i>	---Otocic Koldurac (Koludarc), on Rt Kriz, entrance, S. side.	44° 33.5' N 14° 25.7' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	33 10	3	White octagonal masonry tower; 26.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CROATIA							
12292 <i>E 3026</i>	--Rt Torunza, entrance, N. side.	44° 33.7' N 14° 25.5' E	Fl.W.R. period 3s fl. 0.3s, ec. 2.7s	33 10	W. 6 R. 4	Red octagonal tower, concrete base; 23.	W. 065°-072°, R.-065°.
12296 <i>E 3028</i>	---Rt Poljana.	44° 33.3' N 14° 26.5' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	30 9	5	Red iron lattice tower with gallery; 26.	
12300 <i>E 3029</i>	---Mole, NW. corner.	44° 32.2' N 14° 27.9' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	25 8	4	Red round metal tower; 18.	
12304 <i>E 3019</i>	--Luka Cikat, on Rt Madona.	44° 31.6' N 14° 27.2' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	39 12	3	Octagonal stone tower; 23.	
12308 <i>E 3016</i>	--Veli Losinj, on E. entrance point.	44° 31.4' N 14° 30.4' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	33 10	3	Red tower with column and gallery; 16.	Visible 170°-270°.
12312 <i>E 3014</i>	--Luka Sveta Martin, mole, head.	44° 32.0' N 14° 28.9' E	F.R.	20 6	3	Red iron lamppost; 13.	
12316 <i>E 3012</i>	--Nerezine, S. mole, head.	44° 39.8' N 14° 24.2' E	F.R.	20 6	3	Red iron lamppost; 13.	
12320 <i>E 3008</i>	--Otocic Palacol.	44° 32.5' N 14° 37.5' E	Fl.(2)W.R. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	36 11	W. 8 R. 5	White round concrete tower; 23.	R. 078°-150°, W.-078°.
-Otok Cres:							
12324 <i>E 3006</i>	--Rt Suha.	44° 36.2' N 14° 30.2' E	Fl.W.R. period 5s fl. 0.5s, ec. 4.5s	20 6	W. 9 R. 6	Square concrete hut; 23.	R. 285°-319°, W.-285°.
12328 <i>E 3004</i>	--Luka Jadresnica.	44° 37.0' N 14° 30.5' E	F.G.	16 5	3	White iron column; 13.	
12332 <i>E 3002</i>	-Otocic Trstenik.	44° 40.1' N 14° 34.8' E	L.Fl.W.R. period 10s fl. 2s, ec. 8s	85 26	W. 11 R. 8	Octagonal stone tower, attached dwelling; 39.	W. 042°-346°, R.-018°, W.-032°.
RIJECKI ZALIV:							
12336 <i>E 2850</i>	-Podurinj (Urinj), mole, head.	45° 17.0' N 14° 31.8' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	19 6	3	Metal tower; 16.	
12340 <i>E 2855</i>	--Rt Sridnji, entrance, N. point.	45° 16.7' N 14° 33.5' E	Fl.(2)W. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	39 12	6	White iron tower with gallery; 16.	Visible 212°30'-053°.
-Bakarski Zaliv:							
12344 <i>E 2854.2</i>	--Kraljevica, landing pier, SW. corner.	0° 00.0' N 0° 00.0' E	F.G.	16 5	3	White iron column; 13.	
12348 <i>E 2854</i>	---NE. corner.	45° 16.4' N 14° 34.1' E	F.R.	16 5	3	Red iron lamppost; 13.	
12352 <i>E 2856</i>	--Kavranic, entrance, NE. point.	45° 16.8' N 14° 33.9' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	49 15	6	Red round iron tower; 23.	
12356 <i>E 2857</i>	--Rt Babno.	45° 16.9' N 14° 33.6' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	41 12	4	Red metal column; 16.	
12360 <i>E 2862</i>	--Bakarac, mole, head.	45° 16.8' N 14° 34.9' E	F.R.	20 6	3	Red iron column; 13.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CROATIA							
VELEBITSKI KANAL:							
-Tihi Kanal:							
12364 <i>E 2890</i>	--Otocic Sv. Marko.	45° 15.2' N 14° 34.2' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	49 15	6	Red conical iron tower, masonry base; 26.	
12368 <i>E 2892</i>	--Rt Glavina.	45° 14.4' N 14° 34.9' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	23 7	3	Red round iron tower with gallery; 16.	
12376 <i>E 2894</i>	--Rt Voscica, on Otok Krk.	45° 14.3' N 14° 35.7' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	39 12	3	Masonry tower on dwelling; 33.	Visible 106°-346°.
12380 <i>E 2895</i>	--Rt Turnac, W. side.	45° 13.4' N 14° 36.5' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	29 9	3	White octagonal concrete tower; 21.	
12384 <i>E 2896</i>	--Rt Ertak, E. side.	45° 13.0' N 14° 37.0' E	Fl.W. period 2s fl. 0.3s, ec. 1.7s	29 9	5	White round tower with column and gallery on house; 16.	
12388 <i>E 2906</i>	-Crikvenica, E. side of channel, S. mole, head.	45° 10.3' N 14° 41.7' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	26 8	3	Green iron tower; 23.	
-Otok Krk:							
12392 <i>E 2898</i>	--Soline, near Cape Glavati.	45° 09.7' N 14° 38.4' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	33 10	4	Octagonal masonry tower; 20.	Visible 090°-248°.
12396 <i>E 2899</i>	---Hrid Crni, about 0.5 km. SW. of Soline.	45° 09.6' N 14° 38.0' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	13 4	3	Red concrete tower; 10.	Visible 051°-256°.
12400 <i>E 2900</i>	---Klimno, mole, head.	45° 09.4' N 14° 37.5' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	23 7	3	Red tower with pillar and gallery; 16.	
12404 <i>E 2902</i>	--Uvala Stipnanja, Silo, breakwater.	45° 08.9' N 14° 40.2' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	20 6	3	White round iron tower and post; 16.	
12408 <i>E 2901</i>	---Rt Silo.	45° 09.4' N 14° 40.5' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	46 14	7	White octagonal tower; 30.	
12412 <i>E 2908</i>	-Selce, pier, head.	45° 09.4' N 14° 43.3' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7	4	White iron column; 16.	Visible 036°-306°.
12416 <i>E 2910</i>	-Rt Tokal.	45° 08.3' N 14° 44.9' E	Fl.W. period 6s fl. 1s, ec. 5s	66 20	9	White octagonal masonry tower; 23.	
12420 <i>E 2912</i>	-Novi Vinodolski, breakwater, head.	45° 07.5' N 14° 47.6' E	Fl.G. period 3s fl. 0.3s, ec. 1.7s	26 8	2	Green iron tower; 23.	
12424 <i>E 2914</i>	--Inner mole, head.	45° 07.5' N 14° 47.6' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7	2	Green tower with column and gallery; 16.	
12428 <i>E 2903.3</i>	-Vrbnik, mole, head.	45° 04.8' N 14° 40.8' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	20 6	3	Red iron post; 16.	
12432 <i>E 2916</i>	-Hrid Sv. Anton, on SW. extremity.	45° 05.8' N 14° 50.8' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	29 9	6	White stone tower; 13.	
12436 <i>E 2923</i>	-Senj, "Sv. Ambroz" mole, head.	44° 59.5' N 14° 54.2' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	33 10	5	White octagonal masonry tower; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CROATIA							
12444 <i>E 2922</i>	-"Marija Art" breakwater, head.	44° 59.4' N 14° 53.8' E	Fl.(3)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 4.5s	34 10	8	White octagonal masonry tower; 31.	
12448 <i>E 2926</i>	-Jurjevo, mole, head.	44° 55.8' N 14° 55.4' E	Fl.R. period 1.5s fl. 0.3s, ec. 1.2s	20 6	3	Metal support on column; 16.	Visible 093°-183°.
12452 <i>E 2928</i>	-Lukovo Otocko, Rt Malta.	44° 52.0' N 14° 53.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	29 9	8	Square stone tower; 13.	
12456 <i>E 2929</i>	-Lukovo Otocko, mole, head.	44° 51.3' N 14° 53.6' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	20 6	3	Red round tower; 13.	
KVARNERIC:							
12460 <i>E 2887</i>	-Rt Strazica, Otok Prvic, NW. extremity.	44° 56.0' N 14° 46.5' E	Fl.W. period 6s fl. 1s, ec. 5s	69 21	9	White round tower; 18.	
12464 <i>E 2886.4</i>	-Rt Skuljica, Otok Krk, SE. extremity.	44° 56.6' N 14° 46.0' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	62 19	6	Red round tower; 16.	
12468 <i>E 2886</i>	-Otocic Galun, NE. extremity.	44° 56.4' N 14° 41.1' E	Fl.(3)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 4.5s	39 12	8	White square stone tower; 13.	
KANAL SREDNJA VRATA:							
12472 <i>E 2872</i>	-Rt Veli Pin, Otok Plavnik, W. extremity.	44° 58.8' N 14° 29.4' E	Fl.W. period 6s fl. 1s, ec. 5s	66 20	10	White round tower, masonry base; 39.	
VELEBITSKI KANAL:							
12476 <i>E 2904</i>	--Baska, mole, head.	44° 58.1' N 14° 46.0' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	33 10	4	Concrete hut; 26.	
12480 <i>E 2905</i>	---W. mole, head.	44° 58.3' N 14° 45.6' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Red iron tower and post; 16.	
KVARNERIC:							
12484 <i>E 2884</i>	--Rt Negrit.	44° 58.8' N 14° 37.4' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	46 14	5	Green metal tower; 16.	
12488 <i>E 2880</i>	--Puntarska Draga, on Rt Pod Strazica.	45° 00.7' N 14° 37.8' E	Fl.W. period 2s fl. 0.3s, ec. 1.7s	29 9	5	White iron tower, gallery, post; 16.	
12492 <i>E 2882</i>	---Punat, breakwater, head.	45° 01.3' N 14° 38.1' E	Fl.G. period 4s	13 4	3	Green iron post; 10.	Visible 082°-294°.
12496 <i>E 2874</i>	--Krk, mole, head.	45° 01.4' N 14° 35.0' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	26 8	3	Red square tower, gray top; 26.	
12500 <i>E 2876</i>	---E. mole, head.	45° 01.5' N 14° 34.6' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	20 6	3	Green tower with column; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CROATIA							
KANAL SREDNJA VRATA:							
12504 <i>E 2870.4</i>	--Rt Sv. Mikula.	45° 01.3' N 14° 30.3' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	26 8	4	White metal column; 16.	
12508 <i>E 2870</i>	--Rt Manganel.	45° 04.4' N 14° 26.3' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	43 13	8	White square stone tower; 26.	
12512 <i>E 2869</i>	--Rt Glavotok.	45° 05.4' N 14° 26.4' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	23 7	3	Red round tower; 20.	
RIJECKI ZALIV:							
12516 <i>E 2868</i>	--Malinska, , head, mole.	45° 07.5' N 14° 31.9' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7	4	Red iron tower; 16.	
12520 <i>E 2867.4</i>	--Haludova.	45° 08.2' N 14° 31.9' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	23 7	3	Red tower with column and gallery; 16.	
12524 <i>E 2867</i>	--Njivice, mole, head.	45° 09.9' N 14° 32.9' E	Fl.G. period 4s fl. 0.3s, ec. 3.7s	23 7	3	Green round iron tower with pillar and balcony; 20.	
12526 <i>E 2866.5</i>	--Sapan, quay.	45° 12.1' N 14° 32.5' E	Fl.G. period 5s fl. 1s, ec. 4s	23 7	4	Green tower with column and gallery; 20.	
12528 <i>E 2866</i>	--Tenka Punta.	45° 13.7' N 14° 32.1' E	Fl.(3)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 4.5s	30 9	7	White square stone tower on concrete block; 23.	
12532 <i>E 2863</i>	--Kijac.	45° 14.2' N 14° 32.5' E	Fl.(2)R. period 8s fl. 0.5s, ec. 2s fl. 0.5s, ec. 5s	46 14	8	Red round tower; 16.	Obscured 224°-331°.
12536 <i>E 2864</i>	---Range, front.	45° 12.7' N 14° 33.3' E	Iso.G. period 2s	75 23	11	White column with platform, orange daymark.	
12540 <i>E 2864.1</i>	----Rear, 400 meters 151° from front.	45° 12.4' N 14° 33.1' E	Oc.G. period 5s lt. 3s, ec. 2s	105 32	11	White column with platform, orange daymark.	
VELEBITSKI KANAL:							
12544 <i>E 2888</i>	-Rt Sajalo, Otok Goli, NW. point.	44° 51.0' N 14° 48.2' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	26 8	5	White hexagonal tower; 16.	
12548 <i>E 2940</i>	-Jablanac, on Rt Gradic, entrance, N. side.	44° 42.5' N 14° 53.7' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	10 3	4	Red square hut on column; 17.	
12552 <i>E 2941</i>	--Entrance, S. side.	44° 42.3' N 14° 54.2' E	Fl.G. period 2s	23 7	3		
12556 <i>E 2942</i>	-Plicina Glavina.	44° 41.9' N 14° 52.7' E	Fl.(2)W. period 10s	23 7	4	ISOLATED DANGER BRB, topmark.	
12558 <i>E 2942.3</i>	-Rt Glavina.	44° 42.3' N 14° 52.0' E	Fl.(2)G. period 4s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s	26 8	4	Green tower, gallery, pedestal; 20.	
12560 <i>E 2942.4</i>	-Misnjak.	44° 42.0' N 14° 52.0' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	20 6	3	Red round tower.	Visible 228°-132°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CROATIA							
12564 <i>E 2942.5</i>	--Luka Misnjak.	44° 42.5' N 14° 51.8' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	20 6	3	White tower, gallery; 16.	Visible 016°-254°.
12568 <i>E 2938</i>	--Rt Stokic, N. of port.	44° 42.6' N 14° 53.9' E	Fl.W. period 6s fl. 1s, ec. 5s	164 50	8	Metal structure on masonry hut; 20.	Visible 346°-174°.
12576 <i>E 2943</i>	--Hrid Pohlib.	44° 41.9' N 14° 50.8' E	Fl.W. period 2s fl. 0.3s, ec. 1.7s	23 7	5	Square stone tower; 16.	Visible 275°-168°.
12578	--Plicina Prizna.	44° 36.2' N 14° 58.2' E	Fl.(2)W. period 5s	26 8	8	ISOLATED DANGER BRB, tower on stone base, topmark.	
12580 <i>E 2944</i>	--Rt Jurisnica.	44° 34.4' N 14° 59.6' E	Fl.(3)W. period 12s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 6.5s	33 10	9	White octagonal concrete tower; 23.	
12584 <i>E 2948</i>	--Karlobag, S. mole, head.	44° 31.4' N 15° 04.5' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	26 8	4	Green iron tower; 23.	
KVARNERIC:							
--Otok Rab:							
12588 <i>E 2975</i>	--Lopar, mole, head.	44° 50.2' N 14° 43.6' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	26 8	4	Round white iron tower; 20.	
12592 <i>E 2976</i>	--Rt Sorinj.	44° 50.7' N 14° 41.0' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	33 10	6	Concrete tower; 23.	
12594 <i>E 2977</i>	--Supetarska, head of breakwater.	44° 48.2' N 14° 43.3' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	23 7	4	Red round tower with column and gallery.	
12596 <i>E 2978</i>	--Rt Kalifront.	44° 47.3' N 14° 39.6' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	36 11	8	Red conical iron tower; 16.	
12600 <i>E 2982</i>	--Uvala Kristofor, entrance, W. side.	44° 45.5' N 14° 42.1' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	33 10	8	White tower with gallery and column.	
12604 <i>E 2995</i>	--Otok Dolin, on Donji Rt.	44° 44.4' N 14° 46.2' E	Fl.(3)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 4.5s	30 9	7	White iron tower with post; 20.	
12608 <i>E 2984</i>	--Luka Rab, Plicina Frkanj.	44° 44.9' N 14° 45.5' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	20 6	4	Green conical concrete tower; 20.	
12612 <i>E 2986</i>	---Rt Frkanj.	44° 45.1' N 14° 45.3' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	16 5	4	Red iron column; 13.	
12616 <i>E 2994</i>	---Otocic Tunera, N. extremity.	44° 45.1' N 14° 46.0' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	46 14	4	Octagonal stone tower, green top; 23.	
12620 <i>E 2992</i>	--Luka Rab, on Rt Sveti Ante, extremity of shoal.	44° 45.2' N 14° 45.7' E	Fl.R. period 1.5s fl. 0.3s, ec. 1.2s	23 7	3	Red iron column; 20.	
12624 <i>E 2988</i>	---Mole, head.	44° 45.3' N 14° 45.8' E	Fl.G. period 2s fl. 0.5s, ec. 1.5s	23 7	3	Green iron column; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CROATIA							
12632 <i>E 2998</i>	-Otocic Dolfin.	44° 41.5' N 14° 41.7' E	Fl.(2)W.R. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	98 30	W. R.	10 7	Red 4-sided tower with pillar and gallery; 18. R. 138°-153°, W.-138°.
-Otok Pag:							
12636 <i>E 2996</i>	--Uvala Tovarnele, on S. point.	44° 41.4' N 14° 44.4' E	Fl.W.R. period 6s fl. 1s, ec. 5s	30 9	W. R.	8 5	White iron tower; 23. R. 141°-176°, W. elsewhere.
12640 <i>E 2995.6</i>	-Uvala Stara Novallja, Rt Deda.	44° 36.2' N 14° 52.6' E	Fl.W. period 5s	30 9		5	White square tower; 20.
12644 <i>E 2997</i>	--Luka Novalja, pier, S. head.	44° 33.3' N 14° 53.3' E	Fl.R.G. period 3s fl. 0.3s, ec. 2.7s	23 7	R. G.	3 3	Red iron tower; 16. G. 085°-109°, R.-elsewhere.
12646 <i>E 2946</i>	-Zigljen.	44° 34.8' N 14° 57.1' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	23 7		3	Green tower with column and gallery; 16. Visible 157°-219°.
12646.5 <i>E 2945</i>	--NW. point.	44° 34.9' N 14° 57.4' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	39 12		6	Red framework tower with gallery, concrete base; 21. Visible 019°-270°.
12647 <i>E 2995.8</i>	-Rt Zali.	44° 36.8' N 14° 54.7' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	30 9		8	White round tower on concrete base; 26. Visible 091°-308°.
VIRSKO MORE:							
12648 <i>E 3075</i>	--Uvala Mandre.	44° 29.0' N 14° 54.8' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	23 7		7	White round tower; 16.
12652 <i>E 3076</i>	--Luka Simuni.	44° 27.9' N 14° 57.1' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7		3	White iron tower; 16.
12656 <i>E 3077</i>	--Rt Zaglav.	44° 23.7' N 15° 02.6' E	Fl.(3)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 4.5s	30 9		7	White iron skeleton structure; 16.
12660 <i>E 3078</i>	--Luka Kosljun, mole, root.	44° 23.8' N 15° 05.0' E	Fl.R.G. period 5s fl. 0.5s, ec. 4.5s	23 7	R. G.	3 2	Green tower with column and gallery; 16. G. 353°-027°, R.-353°.
12664 <i>E 3080</i>	--Luka Nova Poveljana.	44° 20.9' N 15° 06.1' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	30 9		5	Red iron column; 20.
12668 <i>E 3082</i>	--Bitve.	44° 19.0' N 15° 07.1' E	Fl.(2)R. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 7		5	Stone tower on concrete base, upper part red; 20.
12672 <i>E 3084</i>	--Rt Prutna.	44° 17.5' N 15° 11.1' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	26 8		3	Pyramidal stone tower, red upper gallery; 20. Visible 121°-031°.
12676 <i>E 3083</i>	--Plicina Prutna, shoal, SW. edge.	44° 17.6' N 15° 09.4' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	20 6		3	Square stone tower on concrete base, upper part red; 20. Visible 296°-180°.
12680 <i>E 3087</i>	-Otocic Sikavic Mali, on SE. point.	44° 17.7' N 15° 14.5' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7		3	Red metal tower; 16.
12684 <i>E 3086</i>	-Otocic Misjak, on NW. point.	44° 18.2' N 15° 11.4' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	26 8		3	Pyramidal tower with gallery on concrete base, upper part green; 20.
12688 <i>E 2953</i>	--Pag Luka, near Rt Golija.	44° 26.9' N 15° 03.3' E	Fl.(2)R. period 5s	23 7		7	Red round metal tower; 16.

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CROATIA							
12692 <i>E 2954</i>	---S. mole.	44° 26.6' N 15° 03.4' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Red round metal tower; 16.	
12696 <i>E 2951</i>	--Rt Zaglav.	44° 30.2' N 15° 00.6' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	29 9	4	Green round metal tower; 20.	
12700 <i>E 2952</i>	--Rt Sveti Nikola.	44° 28.8' N 15° 02.8' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	33 10	4	Red metal column and hut; 16.	
12704 <i>E 2950</i>	--Rt Kristofor.	44° 29.0' N 15° 05.0' E	Fl.W. period 5s fl. 1s, ec. 4s	203 62	7	White octagonal concrete tower; 20.	
12708 <i>E 2960</i>	-Hrid Konj.	44° 25.2' N 15° 13.0' E	Fl.(3)W. period 12s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 6.5s	23 7	6	White round iron tower; 20.	
12712 <i>E 2962</i>	-Kruscica Dukoba, on Rt Duga.	44° 21.0' N 15° 18.9' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7	5	Red round iron tower; 16.	
12716 <i>E 3088</i>	-Ljubacka Vrata, on Rt Ostrljak, entrance, E. side.	44° 19.4' N 15° 15.8' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	30 9	4	Stone tower, upper part green; 20.	Visible 335°-213°.
12720 <i>E 3087.4</i>	--Rt Fortica, entrance, W. side.	44° 19.0' N 15° 16.0' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	21 6	3	Square stone tower; 13.	
12724 <i>E 3089</i>	-Rt Debela Nozica.	44° 19.9' N 15° 16.2' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	26 8	6	Pyramidal stone column; 20.	
12728 <i>E 2964</i>	-Otocic Razanac Veli.	44° 18.9' N 15° 21.6' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	52 16	9	Red iron tower; 20.	
12732 <i>E 2966</i>	-Razanac, breakwater, head.	44° 17.1' N 15° 20.8' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	23 7	4	Red tower; 16.	
12736 <i>E 2970</i>	-Starigrad, breakwater, head.	44° 17.6' N 15° 26.6' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Red metal tower; 16.	
12740 <i>E 2972</i>	-Vinjerac, mole, head.	44° 15.6' N 15° 27.8' E	Fl.W.R. period 3s fl. 0.5s, ec. 2.5s	23 7	W. R. 4 3	Red tower, pillar and gallery; 16.	R. 129°-189°, W.-129°.
12744 <i>E 2971</i>	-Rt Pisak.	44° 16.0' N 15° 29.0' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Red metal tower; 16.	
NOVSKO ZDRILO:							
12748 <i>E 2973</i>	-Rt Baljenica.	44° 14.9' N 15° 31.8' E	Fl.(2)R. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	33 10	5	Concrete tower, upper part red; 13.	
12752 <i>E 2973.1</i>	-Rt Korotanja.	44° 14.8' N 15° 31.6' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	29 9	2	Green round tower; 16.	
12756 <i>E 2973.3</i>	-Rt Vranine, W. shore.	44° 14.0' N 15° 31.0' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	23 7	2	Green round tower; 18.	
12760 <i>E 2973.4</i>	-Rt Brzac, E. shore.	44° 14.0' N 15° 31.0' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	23 7	2	Red round tower; 16.	

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CROATIA							
12764 <i>E 2973.6</i>	-Rt Zdrijac, W. shore.	44° 13.2' N 15° 32.5' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	26 8	3	Green round tower; 16.	
NOVIGRADSKO MORE:							
12768 <i>E 2974</i>	-Luka Novigrad, on Rt Sveti Nikola.	44° 11.3' N 15° 33.2' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	33 10	4	Metal tower on concrete dwelling; 20.	
KVARNER:							
12772 <i>E 3044</i>	-Otocic Grujica.	44° 24.6' N 14° 34.4' E	Fl.(3)W. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	56 17	10	Square tower, white dwelling; 39. Reserve light range 8M.	
-RACON							
			O(---) period 40s		20		
12776 <i>E 3045</i>	-Veli Brak, Kvarneric Vrata, shoal.	44° 27.0' N 14° 38.0' E	Fl.(2)W. period 10s	39 12	5	ISOLATED DANGER BRB, tower, topmark.	
OTOK PREMUDA:							
12780 <i>E 3046</i>	-Otocic Kamenjak, N. head.	44° 21.4' N 14° 35.1' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	39 12	7	White metal tower; 26.	Partly obscured by Kamenjak and Lutrošn Kja Islets.
12784 <i>E 3048</i>	-Luka Krijal, N. mole, head.	44° 20.2' N 14° 35.9' E	F.R.	16 5	3	Red metal column; 13.	
12788 <i>E 3050</i>	-Uvala Loza.	44° 20.8' N 14° 36.4' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	23 7	4	Red tower with column and gallery; 16.	
VIRSKO MORE:							
-Sibanski Kanal:							
--Otok Silba:							
12792 <i>E 3054</i>	---Zalic, mole, head.	44° 22.5' N 14° 41.4' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	20 6	3	Red round tower, column and gallery; 18.	
12796 <i>E 3058</i>	---Rt Arat.	44° 20.7' N 14° 43.4' E	Q.(6)+L.Fl.W. period 15s	49 15	8	S. CARDINAL YB, tower, topmark.	
12800 <i>E 3052</i>	--Otocic Grebeni.	44° 20.0' N 14° 41.7' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	72 22	6	Stone tower; 13.	
-Olipski Kanal:							
12804 <i>E 3060</i>	--Silbinski Kanal, breakwater, head.	44° 22.5' N 14° 42.5' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	26 8	4	Red metal tower; 23.	
12808 <i>E 3064</i>	--Otocic Morovnik.	44° 25.9' N 14° 44.3' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	30 9	5	White square stone tower; 26.	
12812 <i>E 3066</i>	--Luka Olib, breakwater, head.	44° 22.8' N 14° 46.7' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	23 7	4	Red metal column; 16.	Obscured by Kuriak Island.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CROATIA							
-Pohlibski Kanal:							
12816 <i>E 3072</i>	--Ostrov Skrda, NW. point.	44° 28.9' N 14° 51.2' E	Fl.(3)W. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	49 15	10	Square brick tower; 39.	
12820 <i>E 3068</i>	--Otocic Pohlib.	44° 23.7' N 14° 53.8' E	Fl.W. period 5s	52 16	9	Red column on red hut, stone base; 33.	
12824 <i>E 3081</i>	-Otok Vir, on W. side.	44° 18.3' N 15° 01.6' E	Fl.W. period 10s fl. 1s, ec. 9s	69 21	11	Masonry tower; 69.	Visible 315°-163°.
OTOK IST:							
12828 <i>E 3090</i>	-Uvala Siroka, mole, head.	44° 16.3' N 14° 45.8' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	23 7	4	Green round tower, pillar and gallery; 18.	
12832 <i>E 3092</i>	-Rt Vranac.	44° 15.9' N 14° 48.4' E	Fl.W. period 2s fl. 0.3s, ec. 1.7s	43 13	5	White conical metal tower; 26.	
OTOK MOLAT:							
12836 <i>E 3093</i>	-Rt Bonaster, Otok Molat, SW. point.	44° 12.0' N 14° 50.6' E	Fl.(4)W. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	39 12	9	White pyramidal stone tower; 20.	
12844 <i>E 3094.4</i>	-Otocic Golac, on N. shore.	44° 11.4' N 14° 51.0' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	39 12	6	White metal tower; 16.	Visible 066°-280°.
12848 <i>E 3097.4</i>	-Otocic Trata.	44° 12.8' N 14° 55.2' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	33 10	6	Red metal tower with post; 20.	
12852 <i>E 3096</i>	-Otocic Vrtlac.	44° 12.1' N 14° 55.8' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	23 7	5	White metal tower; 16.	
12856 <i>E 3095</i>	Otocic Tun Mali.	44° 11.5' N 14° 54.1' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	27 8	3	Red metal tower; 16.	
12860 <i>E 3097</i>	-Otok Tun Veli.	44° 11.4' N 14° 54.5' E	Fl.W.G. period 5s fl. 0.5s, ec. 4.5s	88 27	W. G. 7 4	White conical metal tower; 23.	W. 213°-223°, 092°-099°30', G. elsewhere.
DUGI OTOK:							
12864 <i>E 3098</i>	-Rt Veli Rat.	44° 09.0' N 14° 49.4' E	Fl.(2)W. period 20s fl. 0.8s, ec. 4.4s fl. 0.8s, ec. 14s	134 41	22	White tower, gallery on house; 118.	
12868 <i>E 3099</i>	-Zaliv Pantera, Rt Tanki.	44° 09.1' N 14° 50.9' E	Fl.W.R. period 3s fl. 0.3s, ec. 2.7s	23 7	W. R. 4 2	Red iron tower; 20.	
12870 <i>E 3099.5</i>	-Zverinacki Kanal.	44° 10.3' N 14° 52.7' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	21 6	4	White round concrete tower, column and gallery, concrete base; 16.	Visible 132°-318°.
12872 <i>E 3134</i>	-Otocic Sestrice.	43° 51.2' N 15° 12.5' E	Fl.W. period 8s fl. 1s, ec. 7s	156 48	20	White octagonal tower, red spiral stripes; 85.	Reserve light range 12M.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CROATIA							
12874 <i>E 3133.5</i>	-Rt Vidilica.	43° 52.0' N 15° 12.0' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	33 10	3	Red tower.	Visible 180°-355°.
12874.5 <i>E 3133</i>	-Hrid Skoljic.	43° 53.0' N 15° 12.6' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	20 6	3	Green tower.	Visible 014°-216°.
12875 <i>E 3132.8</i>	-Rt Proversa.	43° 53.3' N 15° 12.6' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	30 9	3	Red tower.	
12875.5 <i>E 3132.5</i>	-Rt Cuska.	43° 53.8' N 15° 13.5' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	30 9	3	Red tower.	Visible 180°-028°.
SREDNJI KANAL:							
-Dugi Otok:							
12876 <i>E 3100</i>	--Bozava, on Rt Sv. Nedjela.	44° 08.5' N 14° 54.9' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	26 8	4	White metal tower; 16.	
12878 <i>E 3121.5</i>	--Rt Kamik.	44° 05.2' N 15° 00.0' E	Fl.R. period 5s fl. 0.3s, ec. 4.7s	26 8	3	Red round tower, gallery; 16.	
12879 <i>E 3121.7</i>	--Lucina.	44° 05.0' N 15° 00.2' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Red tower with pillar and gallery; 16.	
12880 <i>E 3122</i>	--Brbinj, on Rt Koromasnjak.	44° 04.5' N 15° 00.9' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	36 11	4	White metal tower; 20.	
12884 <i>E 3120</i>	-Otok Rava, on Rt Garmina.	44° 01.4' N 15° 03.6' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	20 6	4	White metal stone hut; 20.	
12888 <i>E 3119</i>	-Otocic Maslinovac.	44° 00.2' N 15° 05.7' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	95 29	4	White metal tower and post; 16.	
12892 <i>E 3124</i>	--Uvala Zmascica.	43° 58.3' N 15° 07.3' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	23 7	4	Green round tower, column and gallery; 18.	
12897 <i>E 3127</i>	---Harbor, E. head.	43° 56.2' N 15° 10.0' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Green round metal tower, pillar and gallery; 18.	
12898 <i>E 3127.4</i>	---N. side of reef.	43° 57.0' N 15° 09.0' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	33 10	4	Red round tower; 18.	
12902 <i>E 3131</i>	--S. breakwater, head.	43° 56.1' N 15° 10.4' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	23 7	3	Red tower, pillar and gallery.	
12904 <i>E 3132</i>	-Otok Lavdara.	43° 56.8' N 15° 12.0' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	23 7	5	White metal column on concrete hut; 16.	Visible 005°-276°.
12906 <i>E 3132.3</i>	-Otocic Lavdara.	43° 54.9' N 15° 13.9' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	33 10	8	White tower; 20.	
12908 <i>E 3106</i>	--Otocic Tri Sestrice, on SE. islet.	44° 10.3' N 15° 01.9' E	Fl.(2)W.R. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	52 16	W. R. 8 6	Masonry tower attached to dwelling; 52.	R. 225°-234°, W. elsewhere.
12912 <i>E 3107</i>	--Otok Rivanj, on Rt Zanavin.	44° 10.0' N 15° 01.5' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	26 8	4	White metal tower; 16.	Visible 349°-209°.

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CROATIA							
12916 <i>E 3107.2</i>	--Harbor, mole, head.	44° 09.2' N 15° 02.1' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7	4	White metal tower; 16.	
12918 <i>E 3107.5</i>	-Rt Rivanjski.	44° 08.5' N 15° 03.4' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	26 8	4	Column with gallery on red tower; 20.	Visible 172°-091°.
12920 <i>E 3108</i>	--Otok Sestrunj, on Rt Trska.	44° 08.8' N 15° 01.7' E	Fl.(4)W. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	33 10	10	Square stone tower; 26.	Obscured from 323° by Otocica Parenak.
12922	--Plicina Beli.	44° 05.3' N 15° 02.5' E	Fl.(3)W. period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4.5s	23 7	6	White iron tower; 20.	Obscured 267°-326°.
12924 <i>E 3110</i>	--Iz Veli.	44° 03.1' N 15° 07.0' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	20 6	4	Red metal column, masonry base; 16.	
12928 <i>E 3112</i>	--Uvala Komaseva, mole, head.	44° 01.7' N 15° 08.7' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	20 6	4	Red round tower, column and gallery; 16.	
12932 <i>E 3115</i>	-Otocic Mrtnovnjak.	44° 00.7' N 15° 10.8' E	Fl.(2)R. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	89 27	7	White metal tower; 16.	
12936 <i>E 3116</i>	-Otocic Karantunic.	44° 00.5' N 15° 14.7' E	Fl.(3)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 4.5s	98 30	9	Red round tower; 18.	
12938 <i>E 3116.3</i>	-Shoal beacon.	43° 56.8' N 15° 15.5' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	20 6	3	ISOLATED DANGER BRB, mast, topmark.	
12940 <i>E 3116.2</i>	-Otocic Balabra Vela.	43° 56.7' N 15° 17.1' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	33 10	5	Square stone tower; 13.	Visible 090°-313°.
12944 <i>E 3116.4</i>	-Hrid Galigolica.	43° 52.7' N 15° 22.5' E	Fl.(2)R. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	36 11	7	Square stone tower; 26.	Visible 155°-325°.
12948 <i>E 3117</i>	-Otocic Kosara, W. head.	43° 53.0' N 15° 24.4' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	39 12	11	White conical tower; 23.	
12952 <i>E 3106.4</i>	-Plicina Sajda.	44° 11.2' N 15° 02.4' E	Fl.(2)W. period 10s	10 3	5	ISOLATED DANGER BRB, tower, topmark.	
12954 <i>E 3150</i>	-Rt Sveti Petar.	44° 09.5' N 15° 03.8' E	Fl.(2)G. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 7	4	Column with gallery on green tower; 20.	Visible 020°-302°.
12954.5 <i>E 3151</i>	--Rt Sveti Petar, SW.	44° 09.2' N 15° 03.5' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	23 7	3	Column with gallery on green tower; 20.	Visible 344°-200°.
12956 <i>E 3152</i>	-Ugljan.	44° 07.8' N 15° 06.3' E	Fl.(2)R. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	20 6	4	Red metal column; 16.	Visible 220°-286° and 352°-090°.
12960 <i>E 3154</i>	--Lukoran, quay, N. head.	44° 06.3' N 15° 09.4' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	20 6	2	Red metal column with gallery; 16.	Visible 168°-018°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CROATIA							
12964 <i>E 3156</i>	--Sutomiscica, on Rt Sveti Grgur.	44° 06.1' N 15° 10.4' E	Fl.(2)R. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 7	4	Red metal column; 20.	
12968 <i>E 3157</i>	--Poljana, on the shoal.	44° 05.5' N 15° 11.6' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	23 7	3	Green round metal tower; 16.	
12972 <i>E 3158</i>	--Preko, mole, head.	44° 04.9' N 15° 11.0' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Red tower with column and gallery; 16.	
12976 <i>E 3160</i>	--Otocic Osljak, NE. point.	44° 04.8' N 15° 13.0' E	Fl.(4)W. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	36 11	8	Red round tower, framework structure; 29.	
12980 <i>E 3164</i>	--Kali, E. mole, head.	44° 04.0' N 15° 12.4' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Red tower with column and gallery; 16.	
12984 <i>E 3165</i>	--Gazemica.	44° 05.2' N 15° 16.2' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7	4	Round green metal tower; 16.	
12985 <i>E 3166</i>	--Kukljica.	44° 02.1' N 15° 15.4' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7	4	Green metal column with gallery.	
12986 <i>E 3167</i>	---Mole, head.	44° 02.0' N 15° 15.1' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	23 7	4	Column with gallery on red tower; 16.	
12988 <i>E 3140</i>	-Luka Petrcane, on Rt Radman.	44° 10.9' N 15° 09.6' E	Fl.W.R. period 3s fl. 0.3s, ec. 2.7s	20 6	W. 7 R. 4	White tower; 16.	R. 141°-262°, W. elsewhere.
12992 <i>E 3142</i>	-Ostri Rat.	44° 07.8' N 15° 12.5' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	46 14	15	White round tower; 46.	Signal station.
12996 <i>E 3144</i>	-Zadar, breakwater, head.	44° 07.2' N 15° 13.8' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	20 6	4	Round tower, red cupola; 20.	
13000 <i>E 3148</i>	--Istarske Obala, NW. side.	44° 07.2' N 15° 13.6' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	20 6	4	Round stone hut, green cupola; 20.	
13003 <i>E 3167.5</i>	-Otocic Misnjak.	44° 01.6' N 15° 15.9' E	Fl.(2)W. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 7	8	White tower with gallery; 20.	
13004 <i>E 3168</i>	-Sukosan, on Rt Podvara.	44° 02.7' N 15° 17.9' E	Fl.W.R. period 5s fl. 0.5s, ec. 4.5s	20 6	W. 8 R. 5	White round tower on square base; 16.	R. 207°-318°, W. elsewhere.
13008 <i>E 3170</i>	--Pier, head.	44° 02.9' N 15° 18.7' E	F.R.	16 5	4	Red metal post; 12.	
PASMANSKI KANAL:							
-Otok Pasman:							
13010 <i>E 3172</i>	--Nevidane.	43° 58.8' N 15° 20.9' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7	4	Red round tower with gallery; 16.	
13012 <i>E 3179</i>	--Luka Pasman, E. mole, head.	43° 57.4' N 15° 23.6' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7	4	Green metal tower; 23.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CROATIA							
13016 <i>E 3174</i>	-Otocic Galesnjak, shoal on S. side.	43° 58.5' N 15° 23.4' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7	4	Green metal tower.	
13020 <i>E 3175</i>	-Otocic Ricul, S. point.	43° 58.5' N 15° 23.7' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	26 8	5	White metal tower.	
13024 <i>E 3176</i>	-Otocic Kormonik, NE. point.	43° 58.1' N 15° 24.0' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Red metal tower.	
13028 <i>E 3177</i>	-Plicina Minerva.	43° 57.9' N 15° 24.6' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7	4	Green metal tower.	
13029 <i>E 3178</i>	-Turanj.	43° 57.9' N 15° 24.8' E	Fl.(2)G. period 5s fl. 0.3s, ec. 1s fl. 0.3s, ec. 3.4s	23 7	4	Green round tower with gallery; 16.	
13032 <i>E 3180</i>	-Otocic Babac, W. point.	43° 57.4' N 15° 24.0' E	Fl.(2)W. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 7	10	Masonry tower on hut; 20.	
13036 <i>E 3181</i>	--E. point.	43° 57.3' N 15° 25.0' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Red metal column, concrete base; 16.	
13040 <i>E 3183</i>	-Plicina Kocerka.	43° 57.2' N 15° 25.6' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7	4	Green metal support, concrete base; 16.	
13044 <i>E 3184</i>	-Otocic Planac, N. point.	43° 56.3' N 15° 26.0' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	25 8	3	Red metal tower.	Obscured 321°-051° by Otocic Sv. Katerina.
13048 <i>E 3186</i>	-Otocic Cavatul, off NE. extremity.	43° 56.4' N 15° 25.1' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	28 9	4	Green metal framework structure, masonry base; 26.	
13052 <i>E 3185</i>	-Biograd, NW. mole, head.	43° 56.2' N 15° 26.6' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7	5	White metal tower; 16.	
13056 <i>E 3188</i>	-Otocic Sv. Katarina, SW. point.	43° 55.9' N 15° 26.0' E	Fl.(2)W. period 8s fl. 0.5s, ec. 2s fl. 0.5s, ec. 5s	28 9	8	White round tower on concrete base; 16.	Visible 309°-142°.
13058 <i>E 3191</i>	-Tkon.	43° 55.3' N 15° 25.6' E	Fl.(2)R. period 5s fl. 0.3s, ec. 1s fl. 0.3s, ec. 3.4s	23 7	4	Red tower, pillar and gallery; 16.	
13060 <i>E 3193</i>	-Otocic Ostarije, LIGHTS, island, S. side.	43° 54.6' N 15° 28.4' E	Fl.W.R. period 3s fl. 0.3s, ec. 2.7s	26 8	W. R. 7 4	White metal tower, gallery on concrete base; 23.	R. 123°-316°, W.-123°.
13062 <i>E 3194</i>	-Pakostane.	43° 54.3' N 15° 30.8' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	23 7	4	Green tower, pillar and gallery; 16.	
13063	Vrgada.	43° 51.5' N 15° 30.2' E	Fl.(2)R. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 7	3	Red tower, pillar and gallery; 20.	Obscured 290°-343°, 155°- 183°.
13064 <i>E 3196</i>	Otocici Artice.	43° 52.0' N 15° 31.9' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	24 7	7	White round tower; 20.	Visible 302°-228°.
PIROVACKI ZALIV:							
13068 <i>E 3205</i>	-Plicina Kusija.	43° 51.6' N 15° 33.4' E	Q.(6)+L.Fl.W. period 15s	20 6	5	S. CARDINAL YB, tower.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CROATIA							
13072 <i>E 3214</i>	-Pirovac, quay, S. head.	43° 49.1' N 15° 40.3' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	20 6	3	Green tower with gallery; 16.	
13076 <i>E 3202</i>	Otocic Prisnjak, near W. extremity.	43° 49.6' N 15° 33.8' E	Fl.(3)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 4.5s	62 19	9	Stone tower; 49.	Visible 249°-146°.
13080 <i>E 3200</i>	Hrid Misine (Kamicac).	43° 48.8' N 15° 34.2' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	29 9	5	Red column on red round tower; 16.	
13084 <i>E 3206</i>	-Hramina, head of mole, N. side of Otok Murter.	43° 49.4' N 15° 35.7' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7	2	Red iron tower; 16.	
13088 <i>E 3204</i>	-Otocic Tegna, NE. point.	43° 50.2' N 15° 35.7' E	Fl.W. period 2s fl. 0.3s, ec. 1.7s	23 7	4	Iron column, concrete base; 24.	
MURTERSKI KANAL:							
13092 <i>E 3208</i>	-Betina, landing mole, head.	43° 49.3' N 15° 36.6' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	23 7	3	Green round tower, column and gallery; 18.	
13096 <i>E 3212</i>	-Rt Rat.	43° 49.5' N 15° 36.6' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	32 10	5	White octagonal concrete tower; 30.	
13104 <i>E 3218</i>	--Mole, head.	43° 47.8' N 15° 39.0' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	23 7	3	Red round tower, column and gallery; 18.	
13112 <i>E 3234</i>	-Greiben Bacvica.	43° 44.9' N 15° 42.1' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	26 8	3	ISOLATED DANGER BRB, tower, topmark; 16.	
13116	- <i>Plicina Mijoka Buoy.</i>	43° 45.3' N 15° 39.9' E	Fl.(2)W. period 10s			ISOLATED DANGER BRB, pillar, topmark.	
13120 <i>E 3220</i>	-Otocic Maslinjak.	43° 46.1' N 15° 41.0' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	57 17	3	White metal column, concrete base; 23.	Visible 282°-195°.
13124 <i>E 3219</i>	Rt Murteric, SW. side of Otok Murter.	43° 46.6' N 15° 37.6' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	62 19	3	White iron tower; 20.	
13128 <i>E 3224</i>	Otocic Kukuljari, E. islet.	43° 45.6' N 15° 38.3' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	39 12	10	White iron round tower; 40.	
13132 <i>E 3222</i>	Sv. Nikola, head of mole (Otok Murter).	43° 46.6' N 15° 38.1' E	Fl.G. period 5s fl. 0.3s, ec. 4.7s	16 5	4	Green metal column and gallery; 16.	
13136 <i>E 3225</i>	Otok Smokvica Vela, island, N. point.	43° 44.1' N 15° 28.6' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	43 13	5	White square stone tower; 26.	
13138 <i>E 3225.1</i>	Otocic Babina Guzica.	43° 42.6' N 15° 29.3' E	Fl.(2)G. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 7	5	Green tower; 20.	
13140 <i>E 3225.2</i>	Otocic Mrtovnjak.	43° 42.5' N 15° 32.4' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	39 12	10	Quadrangular stone tower; 26.	
13142 <i>E 3225.3</i>	Cavlin Shoal.	43° 44.5' N 15° 33.7' E	Fl.(2)W. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 7	6	ISOLATED DANGER BRB, beacon, topmark; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CROATIA							
13143	Hrid Mala Mare.	43° 42.8' N 15° 38.0' E	Fl.(2)W. period 8s fl. 0.5s, ec. 2s fl. 0.5s, ec. 5s	26 8	5	ISOLATED DANGER BRB, beacon, topmark; 20.	
APPROACHES TO SIBENIK:							
13144 <i>E 3231</i>	-Otok Tijat, on Rt Tijascica.	43° 42.4' N 15° 46.6' E	Fl.(3)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 4.5s	42 13	7	Stone tower; 26.	Visible 265°-128°.
13148 <i>E 3230.5</i>	Obonjon.	43° 40.7' N 15° 47.4' E	Fl.(3)R. period 7s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3.5s	20 6	4	Red round tower; 16.	
13152 <i>E 3230</i>	Plicina Sestre, in Zlarinski Kanal.	43° 41.1' N 15° 48.9' E	Fl.(2)W. period 10s	26 8	4	ISOLATED DANGER BRB, tower, topmark.	
13156 <i>E 3240</i>	-Otok Prvic, Uvala Prvicluka, mole, head.	43° 43.4' N 15° 48.1' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	23 7	3	Green tower, pillar and gallery.	
13160 <i>E 3238</i>	--Pric Sepuriue, mole, head.	43° 44.0' N 15° 47.3' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	20 6	3	Red tower, column and gallery; 16.	
LUKA SIBENIK:							
-Sibenski Kanal:							
13164 <i>E 3232</i>	--Tribunj.	43° 45.2' N 15° 44.8' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	17 5	3	Green tower with column and gallery; 16.	
13168 <i>E 3236</i>	--Vodice, S. mole, head.	43° 45.4' N 15° 46.7' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	23 7	3	Red metal column; 16.	Obscured 256°-309°.
-Sibenska Vrata:							
13172 <i>E 3244</i>	--Luka Zlarin, mole, head.	43° 42.0' N 15° 50.2' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	26 8	2	White metal column with gallery; 23.	
13176 <i>E 3243</i>	--Rt Konj, Otok Lupac, SE. point.	43° 42.9' N 15° 49.0' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	28 9	2	Red metal tower; 16.	
13180 <i>E 3242</i>	--Plicina Rozenik.	43° 42.8' N 15° 49.8' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	23 7	6	Green conical tower; 16.	
-Kanal Sv Ante:							
13184 <i>E 3248</i>	--Rt Jadrija, entrance, N. side.	43° 43.3' N 15° 51.1' E	Fl.(2)R. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	36 11	9	Octagonal tower, dwelling; 39.	Visible 160°-098°. Traffic signals. Nauphone: 2 bl. ev. 20s.
13188 <i>E 3250</i>	--Hrid Rocni, entrance, S. side.	43° 43.2' N 15° 51.4' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Green round tower, concrete base; 16.	
13192 <i>E 3251</i>	--Fort Sv. Nikola, NW. side.	43° 43.0' N 15° 51.0' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	19 6	4	Green round tower; 13.	Visible 045°-234°.
13196 <i>E 3256</i>	--Rt Debeli, N. side.	43° 43.5' N 15° 51.6' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	21 6	1	Red round tower, concrete base; 16.	Visible 240°-050°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CROATIA							
13200 <i>E 3252</i>	--Rt Senisna, S. shore.	43° 43.5' N 15° 51.6' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	26 8	1	Green round tower, concrete base; 23.	
13204 <i>E 3260</i>	--Rt Svet Ante, S. shore.	43° 43.6' N 15° 52.4' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	29 9	4	Green round tower with gallery, concrete base; 23.	
13208 <i>E 3262</i>	--Rt Svet Kriz, N. shore.	43° 43.7' N 15° 52.8' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	23 7	1	Red round tower with gallery, concrete base; 16.	Visible in Luka Sibenik 243°-027°.
13212 <i>E 3258</i>	--Rt Baba, N. shore.	43° 43.7' N 15° 52.4' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	20 6	1	Red iron tower with post; 16.	
13216 <i>E 3263</i>	--Rt Juzni Turan, S. shore.	43° 43.7' N 15° 53.2' E	Fl.(2)G. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	26 8	3	Green metal tower with gallery; 16.	
13220 <i>E 3264</i>	--Plicini Paklena.	43° 43.7' N 15° 53.2' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	19 6	3	Green round tower, concrete base; 17.	
13224 <i>E 3266</i>	-Sibenik, on Gata Krk.	43° 44.0' N 15° 53.6' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	23 7	4	Post on white masonry hut; 16.	
13230 <i>E 3265.5</i>	-Sipad.	43° 43.3' N 15° 54.2' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	23 7	3	Red tower with pillar and gallery; 16.	
13232 <i>E 3267</i>	-Gata Martinska, S. corner.	43° 44.3' N 15° 52.7' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	20 6	2	Red tower with column and gallery; 16.	Rijecka Krka is marked by lights shown from shore points.
SIBENSKI KANAL:							
13236 <i>E 3277</i>	-Plicina Krapanj.	43° 41.2' N 15° 54.1' E	Fl.R. period 2s fl. 0.3s, ec. 2.7s	23 7	2	Red round metal tower, concrete base; 16.	Visible 080°-313°.
13240 <i>E 3278</i>	-Otok Krapanj, mole, head.	43° 40.4' N 15° 55.4' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	21 6	2	Red metal tower; 16.	Visible 134°-356°.
13248 <i>E 3279</i>	-Otok Krbela Vela, SE. point.	43° 39.4' N 15° 55.3' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	23 7	4	Red metal tower; 16.	Visible 147°-057°.
13252 <i>E 3280</i>	-Rt Ostrica Vela.	43° 38.9' N 15° 54.4' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	30 9	3	White metal column; 16.	
13256 <i>E 3276</i>	-Otocic Dvanka, NW. point.	43° 39.4' N 15° 53.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	25 8	8	White stone tower; 19.	Visible 326°-172°.
13258 <i>E 3276.6</i>	-Zablace, breakwater, head.	43° 42.3' N 15° 52.2' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	20 6	4	Green metal tower with gallery; 16.	
13259	--Solaris Marina.	43° 41.9' N 15° 52.6' E	Fl.(2)G. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	20 6	3	Green column on stone base; 16.	
13260 <i>E 3275</i>	-Rt Rat, Otok Zlarin, SE. extremity.	43° 39.6' N 15° 52.4' E	Fl.(2)W. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	39 12	6	Square stone tower; 26.	Visible 180°-045°.
13264 <i>E 3275.5</i>	-Otocic Drvenik.	43° 40.3' N 15° 52.8' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	20 6	4	White metal tower; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CROATIA							
13268 <i>E 3274</i>	Otocic Komorica, S. entrance to Zlarinski Kanal.	43° 39.0' N 15° 50.7' E	Fl.(2)R. period 8s fl. 0.5s, ec. 2s fl. 0.5s, ec. 5s	36 11	5	White octagonal concrete tower; 23.	Visible 080°-328°.
13272 <i>E 3229.5</i>	Otok Zmajan, on Rt Sir.	43° 40.9' N 15° 46.6' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	33 10	2	White concrete tower; 13.	
13276 <i>E 3228.5</i>	Otok Kaprije, on Rt Lemes.	43° 40.2' N 15° 43.6' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	26 8	3	White metal tower on concrete base; 13.	
13280 <i>E 3229</i>	-Luka Kaprije, quay, head.	43° 41.4' N 15° 42.8' E	Fl.W. period 3s	21 6	3	White tower, column and gallery; 16.	
13284 <i>E 3229.7</i>	Otok Kakan, SE. extremity.	43° 40.8' N 15° 41.9' E	Fl.(2)R. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	26 8	4	White concrete tower; 13.	
13286	Otocic Raparasnjak.	43° 40.9' N 15° 35.2' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	69 21	7	White tower; 16.	Obscured 334°-350°.
13288 <i>E 3229.8</i>	Brak Prascica.	43° 40.5' N 15° 38.9' E	Fl.(2)W. period 10s	20 6	7	ISOLATED DANGER BRB, tower, topmark; 13.	
13292 <i>E 3227</i>	Otok Zirje, on Rt Muna.	43° 40.0' N 15° 39.7' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	33 10	2	Red metal tower; 16.	Fl.G. 3s 4M shown 300 meters S.
13296 <i>E 3229.2</i>	Otocic Ravan.	43° 39.6' N 15° 44.5' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	39 12	10	Quadrangular stone tower; 26.	
13298 <i>E 3227.7</i>	-Rasohe.	43° 37.6' N 15° 43.9' E	Fl.(2)R. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 7	5	Red beacon; 20.	Visible 188°-061°.
13300 <i>E 3228</i>	Otocic Hrbosnjak.	43° 38.8' N 15° 44.5' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	81 25	5	Red round tower; 20.	
13304 <i>E 3226</i>	Otocic Blitvenica.	43° 37.5' N 15° 34.8' E	Fl.(2)W. period 30s fl. 1.2s, ec. 6.6s fl. 1.2s, ec. 21s	125 38	24	Stone tower, dwelling; 69.	Reserve light range 8M.
13308 <i>E 3283</i>	Primosten, mole, head.	43° 35.1' N 15° 55.2' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	26 8	3	Red metal tower; 24.	
13312 <i>E 3284</i>	-Vojske, on W. mole, head.	43° 35.1' N 15° 56.0' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Red round metal tower; 18.	Visible 348°-075°.
13316 <i>E 3282</i>	-Rt Kremik.	43° 34.5' N 15° 55.2' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	36 11	8	White octagonal concrete tower; 26.	Visible 339°-222°.
13318 <i>E 3285.5</i>	--SE. point.	43° 33.9' N 15° 56.0' E	Fl.(2)R. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	39 12	3	Red tower; 16.	Visible 215°-110°.
13319 <i>E 3285.51</i>	Rt Zecevo.	43° 33.5' N 15° 55.5' E	Fl.(2)G. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	20 6	3	Green tower; 16.	Visible 357°-248°.
13320 <i>E 3285</i>	Plicina Peles, on reef.	43° 33.9' N 15° 54.6' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	26 8	5	Red metal tower, black bands on concrete base; 23.	
13322	Greban Grbavac.	43° 33.6' N 15° 53.0' E	Fl.(2)W. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 7	7	ISOLATED DANGER BRB, tower, topmark; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CROATIA							
13324 <i>E 3286</i>	Hrid Mulo.	43° 30.9' N 15° 55.4' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	75 23	21	Masonry tower attached to dwelling; 58.	Reserve light range 12M.
LUKA ROGOZNICA:							
13328 <i>E 3288</i>	-Rt Gradina.	43° 31.3' N 15° 58.0' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	50 15	4	Red square tower; 19.	Visible 248°-173°.
13332 <i>E 3290</i>	-Uvala Razanj, entrance, E. side.	43° 30.7' N 15° 58.8' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	22 7	3	Red metal tower; 18.	Visible 128°-144°.
13336 <i>E 3287</i>	-Hrid Kalebinjak, E. of Otocic Smokvica.	43° 30.8' N 15° 57.1' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	23 7	3	ISOLATED DANGER BRB, tower, topmark; 13.	
13340 <i>E 3292</i>	-Pier, outer head.	43° 31.6' N 15° 58.5' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	23 7	3	Green tower with pillar and gallery; 16.	
13344 <i>E 3293</i>	Otocic Muljica.	43° 28.4' N 16° 01.0' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	49 15	5	White iron tower with post; 18.	
DRVENICKI KANAL:							
13348 <i>E 3294</i>	-Otocic Velika Murvica.	43° 28.0' N 16° 03.4' E	L.Fl.R. period 8s fl. 2s, ec. 6s	49 15	7	Square stone tower, dwelling; 23.	Reserve light range 6M. Siren: 1 bl. ev. 30s (bl. 4s, si. 26s).
13352 <i>E 3295</i>	-Otok Drvenik Mali, on Rt Pasika.	43° 27.3' N 16° 04.6' E	Fl.(4)W. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	36 11	7	Octagonal stone tower on concrete base; 33.	
-Otok Drvenik Mali:							
13356 <i>E 3295.4</i>	--Uvala Borak, pier.	43° 27.0' N 16° 05.5' E	Fl.W.R. period 3s fl. 0.3s, ec. 2.7s	20 6	W. 4 R. 2	White metal tower; 16.	W. 028°-252°, R.-258°, W.-298°.
13360 <i>E 3296</i>	-Luka Drvenik, E. shore.	43° 27.0' N 16° 08.7' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	20 6	4	Red round tower; 17.	
13364 <i>E 3297</i>	-Rt Artatur.	43° 28.7' N 16° 08.1' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	26 8	4	Stone tower on concrete base; 13.	
TROGIRSKI ZALIV:							
13368 <i>E 3298</i>	-Hrid Galera.	43° 28.3' N 16° 11.5' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	26 8	10	White tower with post; 16.	
13370 <i>E 3331.5</i>	-Plicina Mlin.	43° 27.0' N 16° 14.4' E	Fl.(2)W. period 10s	23 7	8	ISOLATED DANGER BRB, beacon, topmark.	
13372 <i>E 3299</i>	-Balkun, rock, entrance.	43° 28.5' N 16° 12.2' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	26 8	3	Red metal tower; 16.	
13376 <i>E 3299.4</i>	-Zaporinovac, islet, entrance.	43° 28.7' N 16° 12.9' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Green round tower; 16.	
13380 <i>E 3300</i>	-Rt Okruk.	43° 29.8' N 16° 12.4' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	20 6	5	Green round tower; 16.	

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CROATIA							
13384 <i>E 3302</i>	-Hrid Celice.	43° 30.0' N 16° 12.0' E	Fl.(3)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 4.5s	49 15	6	White conical iron tower, stone base; 25.	
13388 <i>E 3304</i>	-Zaliv Marina, Rt Pasji Rat.	43° 30.6' N 16° 08.1' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	25 8	4	White conical iron tower; 25.	
13392 <i>E 3306</i>	-Pier.	43° 30.8' N 16° 06.7' E	Fl.(2)G. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 7	4	Green tower with pillar and gallery; 16.	
13396 <i>E 3308</i>	-Rt Cubrijan, Trogirski Kanal, entrance, S. side.	43° 30.7' N 16° 14.6' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	26 8	4	Green column with post and gallery; 16.	
13400 <i>E 3314</i>	-Slatine, mole, head.	43° 30.0' N 16° 20.4' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	20 6	3	Red tower with gallery; 16.	
LUKA SPLIT:							
13408 <i>E 3349</i>	-Breakwater, head.	43° 30.1' N 16° 26.2' E	L.F.I.G. period 6s fl. 2s, ec. 4s	36 11	10	Green octagonal metal tower, dwelling; 33.	Obscured 252°-285°. 2 F.R. in line 334° mark pipeline 0.4 mile E. Siren: 1 bl. ev. 30s (bl. 4s, si. 26s).
13412 <i>E 3352</i>	-Rt Sustipan, yacht basin, mole, head.	43° 30.1' N 16° 26.0' E	Fl.R. period 1.5s fl. 0.3s, ec. 1.2s	11 3	2	Round masonry tower; 8.	Visible 035°-215°. Not visible seaward.
13416 <i>E 3350</i>	--W. breakwater, head.	43° 30.0' N 16° 26.1' E	Fl.R. period 6s fl. 0.5s, ec. 5.5s	29 9	5	Red round tower with gallery; 20.	Visible 139°-020°.
13418 <i>E 3351</i>	--Inner breakwater.	43° 30.3' N 16° 25.8' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	20 6	3	Red round tower with column and gallery; 20.	Visible 016°-312°.
13420 <i>E 3354</i>	-Gat Sv Petra.	43° 30.3' N 16° 26.4' E	F.R.	20 6	4	White metal hut; 16.	
13424 <i>E 3356</i>	-Gat Listopada, SW. corner.	43° 30.4' N 16° 26.5' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	26 8	4	White iron tower; 24.	
13426	-Zenta, E. mole, head.	43° 30.0' N 16° 27.5' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	30 9	4	White post on concrete base; 23.	Obscured 165°-263°.
13427 <i>E 3331.2</i>	-Rt. Ciovo.	43° 29.3' N 16° 23.5' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	30 9	7	White tower with gallery; 23.	
KASTELANSKI ZALIV:							
13428 <i>E 3331</i>	-Rt Marjan, E. entrance point, mole, head.	43° 30.5' N 16° 23.6' E	Fl.W. period 2s fl. 0.3s, ec. 1.7s	25 8	6	White metal tower, post and gallery; 21.	Visible 290°-210°.
13432 <i>E 3316</i>	-Divulje, mole, head.	43° 31.5' N 16° 17.7' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	20 6	4	Green tower; 16.	
13434 <i>E 3318</i>	Kastel Stari.	43° 33.0' N 16° 21.0' E	Fl.(2)G. period 4s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s	20 6	4	Green tower with gallery; 16.	
13436 <i>E 3327</i>	-Lora, N. breakwater, head.	43° 31.7' N 16° 25.7' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	23 7	3	Stone tower; 16.	

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CROATIA							
13440 <i>E 3328</i>	--W. breakwater, head.	43° 31.6' N 16° 25.7' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	23 7	3	Stone tower; 16.	
13444 <i>E 3328.4</i>	-Hrid Skoljic.	43° 31.3' N 16° 25.2' E	Fl.(2)G. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	24 7	4	White metal tower; 7.	
13446 <i>E 3328.5</i>	-Poljud, N. pier.	43° 31.3' N 16° 25.4' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	20 6	3	White tower with gallery; 16.	
13448 <i>E 3323</i>	-Hridi Galija.	43° 31.9' N 16° 25.3' E	Fl.R.G. period 3s fl. 0.3s, ec. 2.7s	31 9	R. G. 3	Round structure; 28.	G. 061°-103°, R.-061°.
13452 <i>E 3324</i>	-Plicina Silo, NE. of Rt Rat.	43° 31.9' N 16° 26.1' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	23 7	7	ISOLATED DANGER BRB, tower, topmark.	
13456 <i>E 3320</i>	-Kastel Gomilica, pier, head.	43° 32.9' N 16° 24.0' E	F.G.	20 6	3	Green metal column; 16.	
13460 <i>E 3322</i>	-Kastel Sucurac, on point.	43° 32.4' N 16° 26.6' E	Fl.(2)R. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	39 12	4	Gray iron structure.	
13464 <i>E 3325</i>	-On rock SW. of Otocic Barbarinac.	43° 32.1' N 16° 27.0' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	33 10	5	Red tower with column and gallery on stone base; 20.	
13468 <i>E 3326</i>	-Vranjic, landing place, W. corner.	43° 31.8' N 16° 28.4' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	24 7	4	Red column with post and gallery; 16.	
13472 <i>E 3325.4</i>	-Uvala Supaval, point, E. entrance.	43° 31.9' N 16° 27.0' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	16 5	4	Green column on concrete wall.	
13476 <i>E 3330</i>	-Luka Poljud, pier.	43° 31.3' N 16° 25.7' E	F.G.	13 4	3	White post; 10.	F.R. light shown from head of pier about 0.2 km. eastward.
BRACKI KANAL:							
13480 <i>E 3358</i>	-Miljevac, wharf, SE. head.	43° 29.2' N 16° 33.0' E	Fl.(2)G. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 7	4	White round tower; 20.	
13484 <i>E 3360</i>	-Krilo, W. mole, head.	43° 27.6' N 16° 36.1' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	21 6	2	Green metal tower; 16.	
13486 <i>E 3361</i>	-Dugi Rat.	43° 26.5' N 16° 38.6' E	Fl.(2)G. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 7	3	Green tower with pillar and gallery; 16.	
13492 <i>E 3376</i>	--Mole, head.	43° 26.4' N 16° 41.9' E	Fl.W.G. period 3s fl. 0.3s, ec. 2.7s	21 6	W. G. 2	White metal tower with post; 16.	G. 334°-038°, W. elsewhere.
13496 <i>E 3378</i>	-Kutlesa, mole, head.	43° 24.2' N 16° 48.6' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	19 6	4	Green tower, column and gallery; 16.	
13502 <i>E 3386</i>	-Soline-Brela, breakwater, head.	43° 22.1' N 16° 55.7' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	21 6	4	White tower, column and gallery; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CROATIA							
SPLITSKI KANAL:							
-Otok Solta:							
13508 <i>E 3332</i>	--Luka Maslinica (Novsko Zdrilo), on Rt Sv. Nicola.	43° 23.9' N 16° 12.5' E	Fl.W.R. period 3s fl. 0.5s, ec. 2.5s	34 10	W. R.	7 4 Masonry tower; 24.	R. 011°-056°, W.-011°.
13509	--Otocic Stipanska.	43° 24.4' N 16° 10.1' E	Fl.(2)G. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	26 8		6 Green post; 16.	Obscured 255°-355°.
13510	--Rogac.	43° 23.8' N 16° 18.0' E	Fl.(2)W. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	26 8		3 Column on white tower with gallery; 16.	
13512 <i>E 3334</i>	---Rt Bad.	43° 24.0' N 16° 18.6' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	26 8		4 Red square iron tower; 20.	Visible 018°-288°.
13516 <i>E 3336</i>	--Uvala Stomorska, entrance, E. side.	43° 22.5' N 16° 21.4' E	Fl.(2)R. period 5s fl. 0.3s, ec. 1s fl. 0.3s, ec. 3.4s	36 11		3 Red tower with pillar and gallery; 16.	
13520 <i>E 3338</i>	-Rt Livka.	43° 19.8' N 16° 24.2' E	Fl.(2)W. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	37 11		8 Red framework tower on white house; 33.	Visible 168°-058°.
13524 <i>E 3340</i>	-Otok Mrduja.	43° 20.3' N 16° 24.9' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	46 14		4 White iron tower; 20.	
13528 <i>E 3342</i>	-Rt Razanj, Otok Brac, W. head.	43° 19.2' N 16° 24.5' E	Fl.W. period 5s fl. 1s, ec. 4s	56 17		13 Masonry tower, near dwelling; 46.	Visible 340°-175°. Reserve light range 8M. Siren: 2 bl. ev. 42s (bl. 4s, si. 4s, bl. 4s, si. 30s).
13532 <i>E 3344</i>	-Milna, on Rt Bijaka.	43° 19.9' N 16° 26.3' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	26 8		3 White square stone tower; 25.	
13536 <i>E 3346</i>	--Inner port, entrance.	43° 19.6' N 16° 27.1' E	Fl.(2)R. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 7		4 Red tower with pillar and gallery; 16.	
BRACKI KANAL (OTOK BRAC):							
13540 <i>E 3364</i>	-Sutivan, SW. angle of mole, head.	43° 23.2' N 16° 29.0' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	21 6		2 Red metal column; 17.	
13544 <i>E 3366.2</i>	-Supetar, mole, head.	43° 23.0' N 16° 33.0' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7		5 Red round metal tower, pillar and gallery; 18.	
13545 <i>E 3366</i>	--Old mole, head.	43° 23.2' N 16° 33.2' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7		4 Green tower, pillar and gallery; 15.	Visible 307°-207°.
13548 <i>E 3368</i>	-Uvala Splitska, entrance, E. side.	43° 22.8' N 16° 36.5' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	21 6		2 Red metal tower; 18.	
13552 <i>E 3370</i>	-Postire, mole, head.	43° 22.7' N 16° 37.8' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	23 7		3 Stone tower; 20.	Visible 326°-259°.
13556 <i>E 3380</i>	-Luka Pucisca, on Rt Sv. Nikola.	43° 21.7' N 16° 44.3' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	66 20		8 Square tower, dwelling alongside; 37.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CROATIA							
13560 <i>E 3384</i>	-Rt Povlja.	43° 20.4' N 16° 50.0' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	24 7	7	Square masonry tower; 17.	
13564 <i>E 3392</i>	-Rt Rascatna.	43° 18.8' N 16° 54.2' E	Fl.(4)W. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	41 12	8	White masonry tower; 26.	
HVARSKI KANAL (OTOK BRAC):							
13568 <i>E 3396</i>	-Luka Sumartin, entrance, E. side.	43° 16.8' N 16° 52.6' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	26 8	7	White masonry tower, near dwelling; 20.	
13572 <i>E 3398</i>	--W. side of entrance, mole, head.	43° 17.1' N 16° 52.2' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	23 7	3	Red metal column; 17.	Unreliable during SE. gales.
13576 <i>E 3400</i>	-Bol, mole, head.	43° 15.6' N 16° 39.7' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	24 7	3	White square masonry tower; 23.	
13580 <i>E 3388</i>	-Makarska, Poluotocica Sveta Petar, W. head.	43° 17.7' N 17° 00.7' E	Fl.W. period 5s fl. 1s, ec. 4s	52 16	11	Masonry tower, dwelling; 46.	Visible 321°-141°.
13584 <i>E 3390</i>	--Mole, head.	43° 17.6' N 17° 01.3' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	23 7	4	White tower, pillar and gallery; 16.	
13586 <i>E 3393</i>	-Tucepi.	43° 16.2' N 17° 03.4' E	Fl.R. period 5s	23 7	4	Red round tower with column and balcony; 18.	
13588 <i>E 3394</i>	-Uvala Podgora, mole, head.	43° 14.6' N 17° 04.5' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7	4	White tower; 16.	
13590 <i>E 3395</i>	-Drvenik.	43° 09.2' N 17° 15.0' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	16 5	3	Green round tower; 13.	
PAKLENI KANAL:							
13592 <i>E 3431.5</i>	-Pakleni Otoci, on Otocic Vodnjak Veli, islet, SW. part.	43° 10.1' N 16° 19.0' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	102 31	9	Stone tower; 20.	
-Otok Hvar:							
13596 <i>E 3404</i>	--Rt Pelegrin.	43° 11.7' N 16° 22.3' E	Fl.(3)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 4.5s	69 21	8	White conical iron tower, masonry base; 28.	
13598 <i>E 3405</i>	--Hrid Baba.	43° 10.1' N 16° 23.8' E	Fl.(2)W. period 10s	23 7	4	ISOLATED DANGER BRB, tower, topmark.	
13600 <i>E 3406</i>	--Otocic Galisnik.	43° 10.0' N 16° 26.6' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	36 11	5	White masonry tower; 29.	
13604 <i>E 3408</i>	--Luka Hvar, quay, S. corner.	43° 10.2' N 16° 26.8' E	Fl.(2)G. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	19 6	4	Green round tower with column and gallery; 16.	
13608 <i>E 3409</i>	--Sv. Jerolim.	43° 09.6' N 16° 26.6' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	41 12	4	Red metal tower; 18.	
13612 <i>E 3410</i>	--Otocic Pokonji Dol.	43° 09.4' N 16° 27.4' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	66 20	10	Square tower on dwelling; 48.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CROATIA							
HVARSKI KANAL:							
13616 <i>E 3412</i>	--Uvala Pribinja, Rt Galijola, W. entrance point.	43° 12.0' N 16° 25.9' E	Fl.W. period 2s fl. 0.3s, ec. 1.7s	26 8	6	White round tower; 18.	
13620 <i>E 3412.4</i>	---Nezadovoljan, peninsula, head.	43° 11.7' N 16° 25.7' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	26 8	3	Red round tower; 18.	
13624 <i>E 3412.6</i>	---Vira, mole, head.	43° 11.0' N 16° 26.0' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	12 4	3	White round tower; 9.	
13628 <i>E 3418</i>	--Rt Kabal.	43° 13.5' N 16° 31.5' E	Fl.(2)W. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	52 16	7	White iron framework tower; 18.	Visible 324°-227°.
13632 <i>E 3414</i>	--Stari Grad, on Rt Fortin.	43° 11.1' N 16° 35.5' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	29 9	4	Green tower with column gallery on white support; 23.	
13636 <i>E 3413</i>	--Stari Grad, ferry landing.	43° 10.9' N 16° 34.9' E	Fl.(2)G. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 7	4	Green tower and gallery; 16.	Obscured 020°-109°.
13638 <i>E 3413.1</i>	---W. pier.	43° 10.9' N 16° 34.8' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	20 6	4	Red tower and gallery; 16.	
13640 <i>E 3416</i>	--Mole.	43° 11.1' N 16° 36.0' E	F.G.	19 6	3	Green column; 17.	
13644 <i>E 3426</i>	--Otocic Zecevo, E. point.	43° 11.5' N 16° 42.1' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	36 11	5	Stone tower, concrete base; 20.	
13648 <i>E 3420</i>	--Vrboska, on Rt Kriz.	43° 10.6' N 16° 41.5' E	Fl.W. period 2s fl. 0.3s, ec. 1.7s	18 5	5	Iron post on white concrete hut; 16.	
13652 <i>E 3422</i>	---Quay.	43° 10.8' N 16° 40.7' E	F.R.	16 5	3	Red iron column; 13.	
13656 <i>E 3428</i>	--Jelsa, N. mole, head.	43° 09.9' N 16° 41.9' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7	4	Stone tower, cupola; 20.	
13660 <i>E 3431</i>	---S. mole.	43° 10.0' N 16° 42.4' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	20 6	5	Red iron tower and post; 16.	
13664 <i>E 3490</i>	--Rt Sucuraj.	43° 07.5' N 17° 12.2' E	Iso.W. period 4s	46 14	11	Square stone tower; 46.	
OTOK VIS:							
13668 <i>E 3492</i>	--Luka Sucuraj, mole, head.	43° 07.4' N 17° 11.6' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	20 6	3	Red iron column; 10.	
13672 <i>E 3432</i>	--Rt Stoncica.	43° 04.4' N 16° 15.6' E	Fl.W. period 15s fl. 0.7s, ec. 14.3s	125 38	30	Octagonal masonry tower, dwelling; 92.	Visible 110°-357°. Signal station.
13676 <i>E 3434</i>	--Hrid Krava.	43° 04.7' N 16° 13.5' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	23 7	4	White concrete tower; 21.	
13680 <i>E 3436</i>	--Viska Luka, on Otocic Host.	43° 04.6' N 16° 12.6' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	70 21	8	White octagonal masonry tower, dwelling; 37.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CROATIA							
HVARSKI KANAL:							
13684 <i>E 3438</i>	-Prirovo.	43° 03.7' N 16° 11.6' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	21 6	3	Green iron tower with post; 18.	
13688 <i>E 3439</i>	-Hridi Volici.	43° 05.2' N 16° 11.9' E	Fl.W. period 2s fl. 0.3s, ec. 1.7s	26 8	6	White concrete tower; 21.	
13692 <i>E 3440</i>	-Otocic Mali Barjak.	43° 03.2' N 16° 02.7' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	43 13	8	White stone tower; 26.	
13696 <i>E 3442</i>	-Komiza, breakwater, head.	43° 02.7' N 16° 05.4' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7	4	Green round framework tower, gallery; 20.	
13700 <i>E 3443</i>	-Rt Stupisce.	43° 00.4' N 16° 04.3' E	Fl.(3)W. period 12s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 6.5s	59 18	10	Stone tower; 26.	
13704 <i>E 3444</i>	-Otok Bisevo Kobila.	42° 59.2' N 16° 01.5' E	Fl.(2)R. period 10s fl. 1s, ec. 3s fl. 1s, ec. 5s	59 18	11	Red concrete tower with gallery.	
13708 <i>E 3445</i>	-Hridi Lukavci.	43° 05.0' N 16° 35.2' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	46 14	5	White stone tower; 26.	
13712 <i>E 3446</i>	-Otok Scedro.	43° 05.1' N 16° 40.3' E	Fl.W.R. period 6s fl. 0.5s, ec. 5.5s	68 21	W. 10 R. 6	Square stone tower, concrete base; 32.	R. 087°-094.5°, W.-087°.
13716 <i>E 3448</i>	-Luka Lovisce, entrance, E. side.	43° 05.8' N 16° 42.4' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	33 10	3	Red iron tower; 18.	
13720 <i>E 3450</i>	-Otocic Plocica, NW. extremity.	43° 01.8' N 16° 49.2' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	82 25	10	Iron tower on dwelling; 82.	
13724 <i>E 3451</i>	-Prigradica, mole, head.	42° 58.0' N 16° 48.9' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	21 6	3	Red metal tower and mast; 18.	
NERETVANSKI KANAL:							
13732 <i>E 3500.5</i>	-Rt Visnjica, S. side.	43° 02.3' N 17° 25.2' E	Fl.(2)W. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	43 13	7	Red round metal tower; 16.	
13736 <i>E 3501</i>	--NE. side.	43° 02.5' N 17° 25.4' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	39 12	2	Red round metal tower; 16.	
-Luka Kardeljevo:							
13740 <i>E 3501.2</i>	--Rt Bad.	43° 02.8' N 17° 25.5' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	30 9	2	Red four-sided pyramid; 12.	
13744 <i>E 3501.4</i>	--Gata Oslobođenja, W. head.	43° 02.9' N 17° 25.6' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	20 6	3	Round green metal tower with column and gallery; 18.	Visible 045°-285°.
13746 <i>E 3501.6</i>	--Rt. Zminjac.	43° 03.1' N 17° 25.8' E	Fl.(2)R. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	16 5	3	Red tower; 13.	Obscured 138°-250°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CROATIA							
13748 <i>E 3499.3</i>	-Kanal Vlasica, N. mole.	43° 01.8' N 17° 25.5' E	Fl.(2)R. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	16 5	4	Red column; 13.	Visible 236°-062°.
13748.5 <i>E 3499.5</i>	--Oil terminal.	43° 02.0' N 17° 25.9' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	20 6	3	Red tower; 13.	Visible 232°-056°.
13749 <i>E 3499.2</i>	--S. mole.	43° 01.7' N 17° 25.5' E	Fl.(2)G. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	16 5	4	Green column; 16.	Visible 060°-233°.
	-Neretva:						
13752 <i>E 3502</i>	--N. mole, head.	43° 01.2' N 17° 27.0' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	20 6	4	Red column on red hexagonal hut; 16.	River to Metkovic marked by Fl.G. 3s lights to starboard and Fl.R. 3s lights to port.
13756 <i>E 3504</i>	--S. mole, head.	43° 01.1' N 17° 26.9' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	16 5	5	Green pedestal.	
	-Uvala Blaca:						
13764 <i>E 3516</i>	--Otocic Mali Skojic.	42° 59.9' N 17° 28.6' E	Fl.R. period 2s fl. 0.3s, ec. 2.7s	23 7	3	Red metal tower; 16.	Visible 178°-088°.
KANAL MALOG STONA:							
13772 <i>E 3526</i>	-Rt Celjen.	42° 52.1' N 17° 41.0' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	33 10	6	White metal tower; 18.	
13776 <i>E 3528</i>	-Rt Mirina (Mirna).	42° 51.5' N 17° 41.6' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	23 7	3	White iron column, concrete base; 18.	
13780 <i>E 3530</i>	-Plicina Vranjak (Greda), shoal, N. side.	42° 51.4' N 17° 41.9' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	21 6	1	Red iron tower, concrete base; 18.	
13784 <i>E 3531</i>	-Otocic Skoljic.	42° 51.2' N 17° 42.5' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	21 6	1	Green iron tower, concrete base; 16.	
13788 <i>E 3532</i>	-Rt Mali Voz.	42° 51.1' N 17° 42.7' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	21 6	1	Red iron column; 18.	
13792 <i>E 3521</i>	-Rt Rep Kieka.	42° 56.0' N 17° 33.3' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	26 8	5	White round tower with gallery; 16.	
13796 <i>E 3521.3</i>	-Hrid Lopata.	42° 56.1' N 17° 34.3' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7	4	Green tower with column on square base; 16.	
13800 <i>E 3521.5</i>	-Luka Neum.	42° 55.2' N 17° 37.0' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7	4	Red iron tower with steps and gallery; 16.	
13804 <i>E 3522</i>	-Rt Blaca.	42° 55.5' N 17° 31.4' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	33 10	8	White column with gallery; 23.	Visible 127°-285°.
NERETVANSKI KANAL (POLUOTOK PELJESAC):							
13808 <i>E 3520</i>	-Luka Drace, NE. mole, head.	42° 55.7' N 17° 27.3' E	Fl.W.R. period 3s fl. 0.5s, ec. 2.5s	23 7	W. R. 4 2	White metal post; 16.	R. 197°-243°, W.-197°.
13812 <i>E 3496</i>	-Trpanj, E. breakwater, head.	43° 00.7' N 17° 16.2' E	Fl.R. period 4s fl. 0.3s, ec. 3.7s	16 5	4	White pyramidal concrete tower; 22.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CROATIA							
13813 <i>E 3498</i>	--Floodgate, head.	43° 00.6' N 17° 16.1' E	F.R.	20 6	2	Red column; 16.	
13814 <i>E 3488.5</i>	-Duba.	43° 01.5' N 17° 10.2' E	Fl.(2)R. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	20 6	4	Red tower; 16.	
KORCULANSKI KANAL:							
13820 <i>E 3488</i>	-Rt Lovisce, Poluotok Peljesac, NW. point.	43° 02.8' N 17° 00.3' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	33 10	10	Masonry tower and dwelling; 30.	Visible 357°-258°.
13824 <i>E 3487</i>	-Uvala Luka (Lovisce).	43° 01.5' N 17° 01.6' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	30 9	3	Red iron tower; 16.	Visible 243°-113°.
13828 <i>E 3486.5</i>	-Rt Osicac, Poluotok Peljesac, SW. point.	43° 00.6' N 17° 00.6' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	30 9	8	White octagonal concrete tower; 25.	Visible 322°-270°.
PELJESKI KANAL:							
13832 <i>E 3470</i>	-Otocic Kneza Vela, NE. side.	42° 58.9' N 17° 03.5' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	43 13	8	Stone tower; 20.	
13834 <i>E 3470.5</i>	-Kucisce.	42° 58.8' N 17° 07.2' E	F.G.	20 6	2	Green tower with column and gallery; 16.	
13836 <i>E 3471</i>	-Rt Sv. Ivan.	42° 59.1' N 17° 04.3' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	39 12	4	White iron tower; 18.	
13840 <i>E 3476</i>	-Luka Korcula, mole, head.	42° 57.8' N 17° 08.4' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	23 7	4	Red iron column; 23.	
13844 <i>E 3477</i>	-Wharf, NE. corner, E. of harbor.	42° 57.6' N 17° 08.3' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7	2	Green round tower with gallery; 16.	
13848 <i>E 3478</i>	-Badija.	42° 57.3' N 17° 09.2' E	Fl.(2)G. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 7	4	White round tower, white concrete base; 16.	
13852 <i>E 3479</i>	-Korcula.	42° 57.2' N 17° 09.2' E	Fl.(2)R. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 7	3	Red round tower; 16.	
13856 <i>E 3480</i>	-Luka Orebic, mole, head.	42° 58.4' N 17° 10.8' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	25 8	3	Green square metal tower with gallery; 23.	
13860 <i>E 3481</i>	-Otocic Stupe Velike, W. head.	42° 57.8' N 17° 11.4' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	29 9	3	Red metal tower; 18.	Visible 085°-261°.
13864 <i>E 3482</i>	-Otocici Sestrice, NW. islet.	42° 57.8' N 17° 12.7' E	Fl.(4)W. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	58 18	11	Stone tower and dwelling; 39.	
LASTOVSKI KANAL:							
13872 <i>E 3486</i>	-Rt Rasnjic, Otok Korcula, SE. point.	42° 55.0' N 17° 12.4' E	Fl.W. period 6s fl. 1s, ec. 5s	43 13	9	White octagonal stone tower; 26.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CROATIA							
13876 <i>E 3463</i>	-Rt Veli Zaglav.	42° 53.7' N 16° 51.2' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	43 13	7	White iron tower and mast; 18.	
13878 <i>E 3464</i>	-Brna.	42° 54.3' N 16° 51.6' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Red tower; 16.	Visible 025°-224°.
ZALIV VELA LUKA:							
13884 <i>E 3461</i>	-Rt Velo Dance, Otok Korcula, SW. point.	42° 56.0' N 16° 38.0' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	39 12	11	White stone tower; 20.	
13888 <i>E 3454</i>	-Otocic Kamenjak, S. side.	42° 58.1' N 16° 39.6' E	Fl.(2)R. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	32 10	4	White hexagonal masonry tower; 23.	Visible 233°-163°.
13892 <i>E 3458</i>	-Rt Vranac.	42° 57.7' N 16° 42.7' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	24 7	2	White iron column on hut; 21.	Visible 011°-101°.
13896 <i>E 3460</i>	-Vela Luka, pier, W. head.	42° 57.7' N 16° 43.1' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	21 6	2	White metal tower and mast; 18.	
13900 <i>E 3452</i>	-Otocic Proizd, island, off W. head.	42° 59.0' N 16° 36.6' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	38 12	11	White square masonry tower; 27.	Partially obscured by shore 229°-290°.
13904 <i>E 3538</i>	Otok Susac.	42° 45.0' N 16° 29.7' E	Fl.(2)W. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 12s	308 94	24	Square tower on dwelling, red and white stripes; 66.	Visible 253°-213°. Reserve light range 12M.
OTOK LASTOVO:							
13908 <i>E 3545</i>	-Skrivena Luka, on Rt Strazica.	42° 43.8' N 16° 53.4' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	26 8	3	Red iron tower with mast; 20.	
13912 <i>E 3544</i>	-Rt Struga.	42° 43.4' N 16° 53.3' E	Fl.W. period 10s fl. 0.6s, ec. 9.4s	344 105	27	White round stone tower on dwelling; 75.	Visible 259°-095°. Reserve light range 12M.
13916 <i>E 3550</i>	-Sv. Mihajlo, wharf, NW. head.	42° 46.3' N 16° 53.8' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	21 6	2	Red iron tower and mast; 18.	
13920 <i>E 3548</i>	-Luka Velji Lago, Otocic Prezba, SE. point.	42° 45.2' N 16° 49.2' E	Fl.W.R. period 5s fl. 0.5s, ec. 4.5s	59 18	W. 8 R. 5	Round concrete hut; 26.	W. 023°-045°, obsc.-067°, W.- 084°, obsc.-235°, R.-023°.
13932 <i>E 3546</i>	-Ubli (Sv. Petar), port, SE. extremity.	42° 44.7' N 16° 49.8' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	26 8	2	Red iron tower on post; 23.	
13936 <i>E 3552</i>	-Hrid Pod Mrcaru, islet, center.	42° 46.8' N 16° 46.8' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	75 23	9	White round iron tower with post and gallery on concrete base; 22.	
13940 <i>E 3551</i>	Otocic Tajan Velji.	42° 48.9' N 16° 59.6' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	66 20	8	Stone tower; 20.	
13944 <i>E 3554</i>	Otocic Glavat.	42° 45.9' N 17° 09.0' E	Fl.(5)W. period 30s fl. 0.4s, ec. 3.4s fl. 0.4s, ec. 3.4s fl. 0.4s, ec. 3.4s fl. 0.4s, ec. 3.4s fl. 0.4s, ec. 14.4s	148 45	22	Octagonal masonry tower on dwelling; 84.	Visible 120°-070°. Reserve light range 12M.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CROATIA							
MLJETSKI KANAL:							
-Otok Mljet:							
13948 <i>E 3536</i>	--Luka Polace, on Hrid Kula.	42° 47.2' N 17° 26.2' E	Fl.W. period 2s fl. 0.3s, ec. 1.7s	36 11	6	Red iron column; 13.	
13952 <i>E 3537</i>	--Luka Sovra, Rt Pusti.	42° 44.6' N 17° 37.1' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	47 14	7	White octagonal concrete tower; 32.	Visible 156°-043°. Fl.R. 3s marks head of ferry jetty.
13956 <i>E 3537.4</i>	--Luka Okuklje, Rt Stoba.	42° 43.7' N 17° 41.1' E	Fl.(2)W. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	32 10	6	White round tower; 18.	
13960 <i>E 3537.5</i>	---Point of land in harbor.	42° 43.6' N 17° 40.6' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	24 7	1	White round tower; 18.	
13964 <i>E 3537.6</i>	---Harbor, head.	42° 43.7' N 17° 40.5' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	13 4	1	White round tower; 6.	
-Poluotok Peljesac:							
13968 <i>E 3556</i>	--Trstenik, mole, head.	42° 54.9' N 17° 23.9' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Red metal tower with column and gallery; 15.	
13975 <i>E 3558</i>	--Zuljana, mole, head.	42° 53.5' N 17° 27.1' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	20 6	4	Green tower with pillar and gallery; 16.	Obscured 015°-078°.
13980 <i>E 3560</i>	-Otocic Lirica.	42° 52.4' N 17° 25.8' E	L.Fl.W. period 10s fl. 2s, ec. 8s	112 34	9	White round iron tower; 45.	Visible 293°-233°.
KOLOCEPSKI KANAL:							
13984 <i>E 3561</i>	-Otocic Olipa.	42° 45.5' N 17° 46.9' E	Fl.(3)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 4.5s	102 31	10	White masonry tower, SW. of dwelling; 36.	Visible 253°-104°.
13988 <i>E 3562</i>	-Otocic Tajan, island, NW. extremity.	42° 45.6' N 17° 48.0' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	30 9	4	Red metal tower; 18.	Visible 061°-268°.
13990 <i>E 3564</i>	-Rt. Grbljava (Pologrin).	42° 47.3' N 17° 47.0' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	36 11	7	White metal tower; 16.	
-Stonski Kanal:							
13992 <i>E 3566</i>	--Broce, mole, head.	42° 49.2' N 17° 43.2' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	20 6	4	Red iron tower, stone base; 16.	Channel to Ston lighted by beacons and buoys.
13996 <i>E 3570</i>	--Ston, mole, head.	42° 50.0' N 17° 42.2' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	20 6	2	Red iron tower and post; 7	
MLJETSKI KANAL:							
14000 <i>E 3575</i>	-Doli, mole, head.	42° 48.4' N 17° 48.0' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	20 6	2	Red iron tower with post; 17.	
14004 <i>E 3580</i>	-Slano, on Rt Donji.	42° 46.6' N 17° 52.4' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	52 16	4	Corner of dwelling; 13.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CROATIA							
14008 <i>E 3582</i>	--On quay.	42° 47.1' N 17° 53.4' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	23 7	3	Green tower with column gallery; 16.	
14012 <i>E 3584</i>	-Trsteno.	42° 42.7' N 17° 58.4' E	Fl.(3)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 4.5s	33 10	6	White column on stone base; 20.	
	-Otok Sipan:						
14016 <i>E 3576</i>	--Rt Tiha.	42° 45.4' N 17° 51.4' E	Fl.(2)W. period 8s fl. 0.5s, ec. 2s fl. 0.5s, ec. 5s	46 14	9	Metal framework tower on white metal tower; 36.	Visible 117°-305°.
14020 <i>E 3578</i>	--Luka, mole, head.	42° 43.8' N 17° 51.8' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	23 7	3	Red tower with column and gallery; 16.	
14024 <i>E 3590</i>	-Otocic Sv. Andrija.	42° 39.0' N 17° 57.0' E	Fl.W. period 15s fl. 0.8s, ec. 14.2s	226 69	24	Square tower on dwelling; 56.	Reserve light range 12M.
14028 <i>E 3592</i>	-Otok Lopud, mole, head.	42° 41.5' N 17° 56.7' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Red tower, column and gallery; 16.	
14030 <i>E 3579</i>	-Sudurad, S. mole, head.	42° 42.6' N 17° 55.0' E	Fl.(2)W.R. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 7	W. R. 4 2	White column and gallery; 16.	R. 235°-275°.
14031 <i>E 3595.5</i>	-Donje Cove.	42° 40.8' N 18° 00.3' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	20 6	4	White concrete tower; 23.	Visible 142°-262°.
14032 <i>E 3595</i>	-Otok Kalocep, on Rt Gornji.	42° 39.7' N 18° 01.5' E	Fl.(2)W. period 8s fl. 0.5s, ec. 2s fl. 0.5s, ec. 5s	59 18	4	White stone tower; 20.	
14036 <i>E 3596</i>	-Vuka Zaton, on Rt Bat.	42° 41.1' N 18° 03.0' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	62 19	4	Red column with gallery; 20.	
14040 <i>E 3598</i>	Hridi Grebeni, W. rock.	42° 39.1' N 18° 03.2' E	Fl.(3)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 4.5s	87 27	10	Square tower on dwelling; 43.	
14044 <i>E 3600</i>	Otocic Daska, N. head.	42° 40.2' N 18° 03.3' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	23 7	10	White tower; 13.	Visible 023°-295°.
14048 <i>E 3604</i>	Rijeka Dubrovacka, at Mokosica.	42° 40.3' N 18° 05.9' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	20 6	4	White iron column on white concrete tower; 19.	
14050	-Bridge, N. head.	42° 40.1' N 18° 04.7' E	Fl.(2)R. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	30 9	4	Red metal tower; 16.	
14050.5 <i>E 3601.7</i>	--Center.	42° 40.1' N 18° 04.8' E	Iso. W. period 2s	164 50	5		
14051	--S. head.	42° 40.0' N 18° 04.8' E	Fl.(2)G. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	20 6	4	Green metal tower; 16.	
14052 <i>E 3602</i>	Gruz, on Rt Kantafig.	42° 40.0' N 18° 04.7' E	Fl.W. period 2s fl. 0.3s, ec. 1.7s	23 7	5	White metal tower; 16.	Obscured 247°-325°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CROATIA							
14056 <i>E 3602.1</i>	-Gat Petka.	42° 39.5' N 18° 05.2' E	Fl.(2)R. period 4s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s	25 8	3	Red iron column; 23.	
14060 <i>E 3610</i>	Dubrovnik, mole, head.	42° 38.4' N 18° 06.8' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	26 8	4	Red iron tower; 23.	Obscured 327°-357°.
14064 <i>E 3612</i>	-Mole, head.	42° 38.4' N 18° 07.0' E	F.W.G.	17 5	2	White metal column; 13.	G. 254°-305°, W.-254°.
KOLOCEPSKI KANAL:							
14068 <i>E 3613</i>	-Srebreno, breakwater.	42° 37.2' N 18° 12.1' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	20 6	2	Red iron tower with post; 16.	
14076 <i>E 3613.7</i>	-Zupski Zaliv, Plat, on pier, head.	42° 36.0' N 18° 14.0' E	F.G.	23 7	4	Green round metal tower with gallery; 16.	
14080 <i>E 3613.8</i>	-Rt Prahivac.	42° 35.6' N 18° 13.7' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	16 5	3	Red round tower; 7.	
14084 <i>E 3614.5</i>	-About 366 meters S. of extremity of Rt Sveti Roko.	42° 35.1' N 18° 12.5' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	26 8	8	ISOLATED DANGER BRB, tower, topmark; 19.	
14088 <i>E 3614</i>	Cavtat, on shoal at the approach.	42° 35.0' N 18° 13.0' E	Fl.W.R.G. period 2s fl. 0.3s, ec. 1.7s	33 10	W. R. G. 6 4 3	White metal tower; 16.	W. 053°-083°, R.-110°, W.-129°, G.-158°. Radiobeacon.
14092 <i>E 3616</i>	Luka Mali Molunat.	42° 26.9' N 18° 26.6' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	26 8	6	White metal column with gallery; 16.	
BOKA KOTORSKA:							
14096 <i>E 3615</i>	-Otocic Molunst.	42° 26.5' N 18° 26.1' E	Fl.(3)W. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	112 34	8	White iron tower; 13.	Radiobeacon about 0.6 mile NNW.
14100 <i>E 3620</i>	-Ostri Rt.	42° 23.6' N 18° 32.2' E	L.Fl.(2)W. period 10s fl. 2s, ec. 2s fl. 2s, ec. 4s	240 73	12	Red metal pyramidal framework structure; 7.	
14104 <i>E 3622</i>	-Otocic Mamula.	42° 23.8' N 18° 33.8' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	115 35	6	Square brick tower; 14.	
14108 <i>E 3623</i>	--Luka Rose, quay, W. head.	42° 25.7' N 18° 33.7' E	F.G.	16 5	2	Green iron post; 14.	
-Hercegovski Zaliv:							
14112 <i>E 3624</i>	--Herceg Novi, S. mole, head.	42° 27.0' N 18° 32.4' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	31 9	5	Stone obelisk; 27.	Temporarily extinguished 1994.
14116 <i>E 3628</i>	--Zelenika, quay, NW. corner.	42° 27.0' N 18° 34.7' E	Fl.R. period 3s fl. 1s, ec. 2s	30 9	4	White round tower with column and gallery on concrete hut; 18.	Visible 315°-135°.
14120 <i>E 3630</i>	--Pristan.	42° 25.5' N 18° 36.5' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	22 7	5	Green metal tower; 20.	
-Kumborski Tjesnac:							
14124 <i>E 3632</i>	--Denovici, breakwater, head.	42° 26.0' N 18° 36.6' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	45 14	6	Red metal tripod; 6.	Temporarily extinguished 1994.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CROATIA							
-Tivatski Zaliv:							
14128 <i>E 3648</i>	--Donji Krasici, on mole.	42° 24.5' N 18° 39.5' E	F.G.	16 5	2	White metal post; 13.	
14132 <i>E 3647</i>	--Bejelila (Oko), pier, NW. corner.	42° 24.3' N 18° 40.3' E	F.G.	19 6	4	Green iron support; 16.	Obscured 216°-245° over Plicina Tunja.
14136 <i>E 3646</i>	--Zucovac, quay, S. corner.	42° 24.2' N 18° 41.4' E	FL.G. period 3s fl. 0.3s, ec. 2.7s	23 7	2	Green iron tower with post; 16.	Visible 168°-135°.
14140 <i>E 3645</i>	--Plicina Tunja (Jezicac).	42° 24.9' N 18° 41.0' E	FL.(2)W.R. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	26 8	W. R. 4	White stone pyramidal tower; 24.	R. 274°-014°, W.-274°. <i>Temporarily extinguished 1994.</i>
14144 <i>E 3644</i>	--Luka Kaliman.	42° 25.6' N 18° 42.3' E	F.R.	20 6	4	Red column on hut; 16.	
14148 <i>E 3639</i>	--Tivat, Mole I, head.	42° 25.9' N 18° 41.7' E	FL.W.R. period 3s fl. 0.3s, ec. 2.7s	26 8	W. R. 3	Black and white iron tower; 23.	R. 140°-167°, W.-140°.
14152 <i>E 3643</i>	--Stanicic, mole.	42° 25.8' N 18° 42.0' E	F.R.	21 6	3	Green metal column; 16.	
14156 <i>E 3638</i>	--Rt Seljanovo.	42° 26.3' N 18° 41.1' E	FL.R. period 3s fl. 0.3s, ec. 2.7s	23 7	7	Red round tower on concrete base; 20.	
14160 <i>E 3637</i>	--Donja Lastva, quay.	42° 26.8' N 18° 41.5' E	F.R.	22 7	4	Red iron column; 19.	
-Tjesnac Verige:							
14164 <i>E 3652</i>	--Rt Sveti Nedlja.	42° 27.6' N 18° 40.8' E	FL.R. period 2s fl. 0.3s, ec. 1.7s	24 7	5	White iron tower; 23.	
14168 <i>E 3654</i>	--Rt Opatovo.	42° 27.6' N 18° 41.2' E	FL.G. period 2s fl. 0.3s, ec. 1.7s	30 9	4	White metal tower; 26.	
14172 <i>E 3656</i>	--Kamenari, mole, head.	42° 28.1' N 18° 40.8' E	F.R.	19 6	4	Red metal post; 13.	
14176 <i>E 3655</i>	--Lepetane, wharf, head.	42° 28.2' N 18° 41.4' E	F.G.	20 6	3	Green metal post; 16.	
14180 <i>E 3658</i>	--Rt Turski.	42° 28.8' N 18° 41.5' E	FL.(2)W. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	28 9	6	White conical iron tower; 26.	
-Tivatski Zaliv:							
14184 <i>E 3660</i>	--Rt Gospa.	42° 28.7' N 18° 41.7' E	FL.G. period 3s fl. 0.3s, ec. 2.7s	23 7	4	White iron construction on concrete block; 20.	
-Risanski (Morinjski) Zaliv:							
14188 <i>E 3661</i>	--Kostanjica, breakwater, head.	42° 29.2' N 18° 40.3' E	F.R.	13 4	3	White metal framework tower; 13.	<i>Temporarily extinguished 1994.</i>
14192 <i>E 3662</i>	--Morinj.	42° 29.5' N 18° 39.3' E	F.G.	13 4	4	Green iron column; 10.	
14193 <i>E 3662.4</i>	--Lipci, dike, head.	42° 29.8' N 18° 39.8' E	FL.G. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Green round metal tower, pillar and gallery; 18.	
14196 <i>E 3664</i>	--Perast, on quay.	42° 29.2' N 18° 42.1' E	F.R.	16 5	2	Red iron column; 13.	Visible 304°-124°.
14200 <i>E 3663</i>	--Risan, mole, head.	42° 30.8' N 18° 41.9' E	FL.G. period 3s fl. 0.5s, ec. 2.5s	22 7	2	Green round metal tower; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CROATIA							
-Kotorski Zaliv:							
14204 <i>E 3666</i>	--Donji Stoliv, mole, head.	42° 28.4' N 18° 43.0' E	F.G.	16 5	2	White metal column; 14.	
14208 <i>E 3670</i>	--Sv. Stasije, Dobrota.	42° 28.1' N 18° 46.1' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	20 6	6	White iron tower with mast; 16.	
14212 <i>E 3674</i>	--Prcanj, about 1 km. NW. of town.	42° 27.2' N 18° 45.2' E	F.G.	16 5	1	Green metal pyramid; 16.	
14216 <i>E 3676</i>	---Rt Rdakova.	42° 27.0' N 18° 45.5' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	26 8	6	White iron tower with post; 23.	
14220 <i>E 3678</i>	--Muo, mole, head.	42° 26.1' N 18° 45.7' E	F.G.	16 5	1	Green metal column; 13.	
14224 <i>E 3682</i>	--Kotor.	42° 25.6' N 18° 46.3' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	26 8	5	Red metal tower; 23.	

Section 10

Montenegro, Albania, and South and West Coasts of Greece Including Peleponnisos

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MONTENEGRO							
14236 <i>E 3684</i>	Zaliv Traste, Rt Traste.	42° 21.3' N 18° 41.6' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	30 9	5	White round tower with gallery and pillar; 20.	Visible 010°-278°.
14240 <i>E 3685</i>	Rt Platamon.	42° 16.1' N 18° 47.0' E	Fl.W. period 6s fl. 1s, ec. 5s	105 32	9	White hexagonal stone tower, round column and gallery; 33.	
14244 <i>E 3686</i>	Otocic Sveti Nikola, SE. point.	42° 15.6' N 18° 51.8' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	75 23	8	White concrete column, near dwelling; 10.	Visible 248°-113°.
14248 <i>E 3688</i>	Budva, mole, head.	42° 16.8' N 18° 50.7' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	21 6	3	Red iron framework tower with column and gallery; 16.	Visible 090°-270°.
14250 <i>E 3687</i>	-Budva.	42° 17.1' N 18° 50.9' E	Fl.R. period 2.5s fl. 0.5s, ec. 2s	16 5	6	White round tower, column and balcony; 20.	
BARSKO SIDRISTA:							
14260 <i>E 3690</i>	-Rt Volovica.	42° 05.3' N 19° 04.5' E	Fl.W. period 4s fl. 1s, ec. 3s	95 29	16	White octagonal concrete tower, black bands; 19.	
14268 <i>E 3691</i>	--W. breakwater, head.	42° 06.0' N 19° 04.9' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	33 10	5	Green square concrete tower; 16.	
14269 <i>E 3693</i>	--Mole, N. head.	42° 05.8' N 19° 05.2' E	Fl.(2)R. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 7	3	Red metal framework tower, column and gallery; 16.	
14272 <i>E 3696</i>	Rt Mendre.	41° 57.2' N 19° 09.0' E	L.Fl.W. period 10s fl. 2s, ec. 8s	115 35	11	White octagonal concrete tower, square base; 26.	
14276 <i>E 3698</i>	Ulcinj, on old fort.	41° 55.3' N 19° 12.1' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	88 27	8	White metal column on fort; 13.	
ALBANIA							
SHENGJIN:							
14280 <i>E 3702</i>	-Kep i Shengjinit.	41° 48.7' N 19° 35.1' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	79 24	10	Red framework tower; 59.	
14282 <i>E 3702.5</i>	-Mali Renzit.	41° 49.2' N 19° 34.3' E	Fl.(2)W. period 8s	157 48	10	Square hut.	
14284 <i>E 3703</i>	-Entrance Range, front, center of jetty.	41° 48.9' N 19° 35.3' E	Fl.R. period 6s fl. 0.5s, ec. 5.5s	39 12	5	White square daymark, black stripe.	
14288 <i>E 3703.1</i>	--Rear, 75 meters 002° from front, base of jetty.	41° 48.9' N 19° 35.3' E	Fl.R. period 5s fl. 0.8s, ec. 4.2s	49 15	5	White square daymark, black stripe.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ALBANIA							
14292 <i>E 3704</i>	Talej.	41° 42.6' N 19° 35.2' E	Fl.W. period 6s	49 15	7	On roof of hydroelectric station.	
14296 <i>E 3705</i>	Kep i Rodonit.	41° 35.2' N 19° 26.8' E	Fl.(2)W. period 10s	131 40	8	White square column; 33.	
14300 <i>E 3708</i>	Kep i Palit.	41° 24.8' N 19° 23.6' E	Fl.W.R. period 10s	111 34	10	White square tower; 10.	R. 140°-160°, W.-140°.
DURRES:							
14304 <i>E 3711</i>	-Kep i Durresit.	41° 18.9' N 19° 26.4' E	Fl.(2)W. period 10s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 7.3s	413 126	18	White octagonal tower; 46.	Reserve light range 10M.
14310 <i>E 3714.1</i>	--Range, front.	41° 18.9' N 19° 28.1' E	Fl.W. period 3s fl. 1s, ec. 2s	13 4	6	Pole, white rectangular daymark, black stripe; 10.	Visible 016°12'-019°42'.
14310.1 <i>E 3714.15</i>	---Rear, 300 meters 018° from front.	41° 19.1' N 19° 28.2' E	Fl.W. period 3s fl. 1s, ec. 2s	36 11	6	Pole, white rectangular daymark, black stripe; 33.	Visible 016°12'-019°42'.
14312 <i>E 3712</i>	-S. mole, head.	41° 18.2' N 19° 27.3' E	Fl.R. period 5s	26 8	6	White column; 26.	
14316 <i>E 3714</i>	-E. breakwater, head.	41° 18.3' N 19° 27.4' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	31 9	3	White column; 26.	
14320 <i>E 3719</i>	Kep i Lagit.	41° 08.8' N 19° 26.3' E	L.Fl.W. period 6s	43 13	10	White octagonal masonry tower; 26.	
14322 <i>E 3720</i>	Karavastase.	40° 52.9' N 19° 25.5' E	Fl.W. period 8s	62 19	6		
14324 <i>E 3721</i>	Vijose, at entrance.	40° 38.9' N 19° 19.0' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	39 12	7	Metal framework structure, white bands, square daymark; 33.	
SHENGJIN:							
14328 <i>E 3723</i>	-Ishull i Sazanit, on NW. point.	40° 30.3' N 19° 16.1' E	Fl.W. period 10s	633 193	10	White tower and dwelling; 39.	Visible 340°-197°.
14332 <i>E 3725</i>	-Shen Nokole, N. mole.	40° 30.1' N 19° 17.4' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	26 8	4	Green metal column; 23.	
14336 <i>E 3726</i>	--S. mole.	40° 30.1' N 19° 17.4' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	31 9	4	White pyramid, octagonal base; 23.	
14337 <i>E 3726.5</i>	-Kepi i Jugor.	40° 28.5' N 19° 17.2' E	Fl.W. period 6s	59 18	6		
14338 <i>E 3732.5</i>	-Kepi Gjuhezes.	40° 25.3' N 19° 17.6' E	Fl.W. period 8s	190 58	8		
GJI I VLORES:							
14340 <i>E 3728</i>	-Kep i Gallovecit, entrance, S. side.	40° 26.2' N 19° 19.5' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	59 18	5	Metal column, black stripe, white double square daymark; 23.	Visible 095°-290°.
14344 <i>E 3727</i>	-Kep i Trepoteve, E. shore.	40° 30.7' N 19° 23.8' E	Fl.W. period 9s	230 70	9	White octagonal stone tower; 33.	
14348 <i>E 3729</i>	-Vlore, mole, head.	40° 27.0' N 19° 28.8' E	Fl.G. period 3s	72 22	3	Triangular structure; 46.	
14350 <i>E 3729.1</i>	-W. mole.	40° 27.0' N 19° 28.9' E	Fl.R. period 3s		3		

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ALBANIA							
14351 <i>E 3730</i>	-Kepi i Kalase.	40° 24.9' N 19° 28.9' E	Fl.W. period 3s	144 44	10		
14352 <i>E 3732</i>	-Shen Vasilit.	40° 23.0' N 19° 24.0' E	L.Fl.W. period 8s fl. 2.5s, ec. 5.5s	246 75	6	White octagonal tower; 20.	
14360 <i>E 3731</i>	-Gji Dukatit, on Kep i Pasha Liman.	40° 19.6' N 19° 25.4' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	69 21	4	White quadrangular masonry tower; 26.	
PORT' E PALERMOS:							
14368 <i>E 3734</i>	-Kep i Palermos.	40° 02.8' N 19° 47.5' E	Fl.W. period 7s fl. 0.5s, ec. 6.5s	343 105	9	Concrete tower; 33.	
14370 <i>E 3734.5</i>	-Pier, head.	40° 00.3' N 19° 53.4' E	Fl.R. period 3s	23 7	4		
14372 <i>E 3741</i>	Kep i Qefalit.	39° 54.6' N 19° 54.8' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	469 143	9	Green square tower; 10.	
14374 <i>E 3742.5</i>	-SE. side.	39° 50.9' N 20° 01.4' E	Fl.W. period 9s	56 17	6		
GREECE-WEST COAST-IONIOI NISOI (IONIAN ISLANDS)							
14380 <i>E 3738</i>	Nisos Othonoi.	39° 51.9' N 19° 25.3' E	Fl.W. period 10s fl. 0.7s, ec. 9.3s	338 103	21	Metal tower, masonry base; 33.	Visible 106°-040°.
14384 <i>E 3739</i>	-SW. point.	39° 50.2' N 19° 23.2' E	Fl.(2)W. period 6s fl. 0.3s, ec. 1.4s fl. 0.3s, ec. 4s	69 21	6	White round hut, column; 20.	Visible 276°-116°.
14388 <i>E 3740</i>	Nisis Errikousa, on Akra Potamopoulo.	39° 53.5' N 19° 35.9' E	Fl.(3)W. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	161 49	6	Metal framework; 15.	Visible 141°-011°.
KERKIRA (CORFU):							
14390 <i>E 3749</i>	-Cape Aikaterini.	39° 49.3' N 19° 50.9' E	Fl.W. period 10s fl. 1s, ec. 9s	46 14	6	Metal framework; 15.	Visible 045°-285°.
-North Channel:							
14392 <i>E 3750</i>	--Nisis Peristerai.	39° 47.6' N 19° 57.6' E	Fl.R. period 5s fl. 0.4s, ec. 4.6s	75 23	5	White round tower, dwelling; 33.	
14396 <i>E 3754</i>	--Akra Psaromita.	39° 47.1' N 19° 56.9' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	30 9	4	Metal framework, green band; 16.	Visible 119°-310°.
14398 <i>E 3754.5</i>	--Serpa Bank, E. head.	39° 46.3' N 19° 57.6' E	Q.(3)W. period 10s	39 12	7	E. CARDINAL BYB, beacon, topmark; 39.	
14400 <i>E 3774</i>	-Nisis Vidhon, S. point.	39° 38.3' N 19° 55.7' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	39 12	4	Metal framework tower.	Visible 209°-103°. F.R. reserve light shown from pier westward.
14414 <i>E 3755</i>	-Ormos Gouvion.	39° 39.0' N 19° 51.1' E	2 F.R. (vert.)	20 6	3	White metal column.	1 meter apart.

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GREECE-WEST COAST-IONIOI NISOI (IONIAN ISLANDS)							
-Mourayia:							
14416 <i>E 3760</i>	--Breakwater, W. head.	39° 37.7' N 19° 54.7' E	Q.R.	30 9	2	White concrete column, red band.	
14420 <i>E 3761</i>	--Detached breakwater, E. head.	39° 37.8' N 19° 54.6' E	Q.G.	23 7	2	White metal framework tower on round base, green band.	
14421 <i>E 3761.4</i>	--W. head.	39° 37.8' N 19° 54.4' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	20 6	4	White round hut with metal framework, red band.	
14423 <i>E 3762</i>	-Passenger pier, head.	39° 38.0' N 19° 54.3' E	Fl.G. period 2s fl. 0.5s, ec. 1.5s	23 7	7	Metal framework tower on white hut, green band.	
14424 <i>E 3758</i>	--Landing place.	39° 37.7' N 19° 55.2' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	21 6	4	Metal framework on white round hut, red band; 18.	
14428 <i>E 3757</i>	-Limeniskos Mandraki, breakwater, W. head.	39° 37.5' N 19° 55.7' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7	4	Metal framework on white round hut, red band; 18.	
14430 <i>E 3756</i>	-Akra Sidhero, on citadel.	39° 37.4' N 19° 55.8' E	Fl.(2)W. period 6s	249 76	13	Round tower and dwelling.	Visible 112°30'-045°. Signal station.
14432 <i>E 3773</i>	-Akra Anemomilos.	39° 36.8' N 19° 55.7' E	Fl.(2)R. period 10s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 8.2s	26 8	4	Column with gallery on white hexagonal hut, red band; 24.	
14436 <i>E 3776</i>	-Akra Levkimnis.	39° 27.7' N 20° 04.4' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	30 9	7	Metal framework on white square hut; 20.	Visible 046°-332°.
14440 <i>E 3778</i>	-Port Levkimnis, river, S. side, pier.	39° 26.2' N 20° 05.3' E	Fl.R. period 2s fl. 0.2s, ec. 1.8s	23 7	3	White metal framework with red band.	
-West coast:							
14444 <i>E 3779</i>	--Vrakhoi Lagoudhia.	39° 25.1' N 19° 54.3' E	Fl.(3)W. period 14s fl. 0.3s, ec. 1.3s fl. 0.3s, ec. 1.3s fl. 0.3s, ec. 10.4s	56 17	7	Iron framework pyramid; 8.	Visible 290°-145°.
14448 <i>E 3780</i>	--Akra Kosteri.	39° 40.3' N 19° 42.8' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	82 25	5	Metal framework tower on hut, green band.	
14449 <i>E 3781</i>	---Palaioastritsas, pier, head.	39° 40.4' N 19° 42.6' E	F.R.	26 8	3	Metal column, red band; 20.	
14452 <i>E 3781.5</i>	--Akra Arilla.	39° 42.7' N 19° 39.5' E	L.Fl.W. period 7.5s fl. 2s, ec. 5.5s	105 32	4	White round hut with column; 23.	Visible 269°-132°.
14456 <i>E 3782</i>	Sayiadhiaa, on the peninsula.	39° 37.5' N 20° 10.9' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	19 6	5	Skeleton tower on hut.	
14460 <i>E 3783</i>	Nisis Prasoudhi.	39° 30.6' N 20° 09.3' E	Fl.(2)W. period 9s fl. 0.7s, ec. 1.3s fl. 0.7s, ec. 6.3s	138 42	8	Pyramidal tower.	
14464 <i>E 3784</i>	Ormos Igoumenitsis, on Akra Kondramourt.	39° 29.9' N 20° 13.7' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	39 12	5	Metal framework tower on hut; 20.	Visible 083°-283°.
14468 <i>E 3784.2</i>	-Pier, head.	39° 30.0' N 20° 15.6' E	2 F.R. (vert.)	30 9	5	Metal column; 23.	1 meter apart.
14472 <i>E 3785</i>	Ormos Mourtou, pier, head.	39° 24.5' N 20° 14.4' E	Fl.R. period 1.5s fl. 0.3s, ec. 1.2s	20 6	3	White round hut, metal framework, red band; 16.	Visible 091°-176°.

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GREECE-WEST COAST-IONIOI NISOI (IONIAN ISLANDS)							
14476 <i>E 3786</i>	Nisis Mavro Oros.	39° 24.4' N 20° 12.6' E	Fl.(3)W. period 20s fl. 1s, ec. 3s fl. 1s, ec. 3s fl. 1s, ec. 11s	286 87	12	White tower, dwelling.	Visible 313°-236°.
14480 <i>E 3788</i>	Ormos Pargas.	39° 17.0' N 20° 23.8' E	Fl.(2)W. period 6s fl. 0.3s, ec. 1.4s fl. 0.3s, ec. 4s	79 24	6	Metal framework tower on hut.	Visible 269°-060°.
14484 <i>E 3792</i>	-Lakka.	39° 14.5' N 20° 07.5' E	Fl.(3)W. period 24s fl. 0.8s, ec. 3.2s fl. 0.8s, ec. 3.2s fl. 0.8s, ec. 15.2s	213 65	20	Square stone building and dwelling; 33.	Visible 000°-257°.
NISOS PAXOI:							
14488 <i>E 3794</i>	-Nisis Panayia.	39° 12.3' N 20° 12.0' E	Fl.W.R. period 5s fl. 0.1s, ec. 4.9s	85 26	W. 10 R. 8	White square masonry tower, dwelling; 26.	W. 135°-250°, R.-283°, W.-325°, obsc.-135°.
14489 <i>E 3794.7</i>	--Point Kiavari.	39° 12.3' N 20° 11.6' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	26 8	3	White metal framework, green band.	
14490 <i>E 3795.6</i>	--Akra Nikolaos, NW. point.	39° 12.1' N 20° 11.3' E	Fl.R. period 2s fl. 0.2s, ec. 1.8s	23 7	3	White metal framework, red band.	
14491 <i>E 3795</i>	--Limin Paxon, N. breakwater, head.	39° 11.9' N 20° 11.4' E	Fl.G. period 2s fl. 0.2s, ec. 1.8s	23 7	3	White metal framework, green band.	
14491.5 <i>E 3795.7</i>	--N. entrance, on quay.	39° 12.0' N 20° 11.3' E	F.G.	23 7	3	White metal column, green band.	
14492 <i>E 3794.5</i>	--Island, NW. point.	39° 12.4' N 20° 11.7' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	33 10	3	Metal framework tower; 10.	
14494 <i>E 3791.2</i>	-Longos, breakwater, head.	39° 13.8' N 20° 09.9' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	23 7	3	White round hut with metal framework, green band.	
14496 <i>E 3796</i>	Nisis Andipaxoi, Akra Ovorou (Novarra).	39° 08.1' N 20° 15.3' E	Fl.W.R. period 6s fl. 1.5s, ec. 4.5s	135 41	W. 12 R. 9	Square masonry tower, dwelling; 36.	W. 136°-167°, R.-185°, W.-307°, R.-037°, W.-060°, obscured elsewhere. Reserve light F.W.R.
14500 <i>E 3800</i>	Ormos Nikopoleos, Akra Mitikas.	39° 00.3' N 20° 41.9' E	Fl.W.R. period 3s fl. 0.3s, ec. 2.7s	39 12	W. 7 R. 5	White square hut with metal framework on pedestal in sea.	W. 347°-078°, R.-135°, W.-147°.
STENON PREVEZIS:							
14504 <i>E 3804</i>	-Entrance Range, near Fort Aktion, front.	38° 56.6' N 20° 45.6' E	Q.Y.	16 5	7	Yellow triangular daymark, on house roof.	
14508 <i>E 3804.1</i>	--Rear, about 740 meters 066° from front.	38° 56.7' N 20° 45.9' E	L.Fl.Y. period 6s	31 9	7	Metal framework tower on hut, yellow triangular daymark, point down.	
14512 <i>E 3806</i>	-Akra Akra.	38° 57.4' N 20° 45.7' E	L.Fl.W. period 7.5s fl. 2s, ec. 5.5s	13 4	5	Round metal hut.	Visible 018°-156°.
14518 <i>E 3809</i>	-Limin Preveza, W. mole, head.	38° 57.5' N 20° 45.3' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	23 7	3	Metal framework with gallery, red band.	
14520 <i>E 3808</i>	--E. mole, head.	38° 57.4' N 20° 45.3' E	Fl.G. period 2s	20 6	4	Metal framework on white round hut, green band; 16.	
14522 <i>E 3810</i>	-Agios Thomas.	38° 57.8' N 20° 47.9' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	20 6	3	Metal framework with gallery and column, red band.	

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GREECE-WEST COAST-IONIOI NISOI (IONIAN ISLANDS)							
AMVRAKIKOS KOLPOS:							
14524 <i>E 3811</i>	-Akra Laskara.	38° 57.3' N 20° 49.3' E	Fl.(2)R. period 6s fl. 0.4s, ec. 1.4s fl. 0.4s, ec. 3.8s	39 12	5	Metal framework tower on square hut, red band.	Visible 246°-103°.
14532 <i>E 3824</i>	-Ormos Salaoras, mole, head.	39° 01.9' N 20° 52.3' E	Fl.G. period 8s fl. 0.8s, ec. 7.2s	19 6	5	Metal tower with column; green band.	
14533 <i>E 3822</i>	Koronisia, NW. mole, head.	39° 00.9' N 20° 54.8' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	20 6	3	Metal framework, gallery and metal column, red band.	Fl.G. 3s 3M marks SE. mole head.
14536 <i>E 3820</i>	-Akra Koprainis.	39° 01.7' N 21° 04.5' E	Fl.(2)W.R. period 16s fl. 1s, ec. 2s fl. 1s, ec. 12s	29 9	W. R. 5 3	Round masonry tower on dwelling; 29.	W. 169°-349°, R.-169°. Reserve light F.W.R.
14540 <i>E 3817</i>	-Ormos Ampilokhias, Ayios Yeoryios, on point.	38° 53.6' N 21° 09.0' E	Fl.G. period 3s fl. 0.4s, ec. 2.6s	20 6	4	Metal framework tower, green band on white hut.	Visible 125°-333°.
14542 <i>E 3818</i>	Amfilochia.	38° 52.1' N 21° 09.8' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	16 5	3	Metal framework with gallery and column, green band.	
14544 <i>E 3816</i>	-Akra Khondri Miti.	38° 54.7' N 21° 06.6' E	Fl.W. period 5s fl. 1s, ec. 4s	36 11	4	Metal framework on square hut.	Visible 074°-275°.
14548 <i>E 3814</i>	-Vonitsa, jetty, head.	38° 55.3' N 20° 53.2' E	Fl.G. period 1.5s fl. 0.3s, ec. 1.2s	23 7	4	Metal tower with column, green band.	Visible 092°-276°.
14556 <i>E 3812</i>	-Akra Panayia.	38° 57.0' N 20° 52.0' E	L.Fl.G. period 7.5s	19 6	3	White iron beacon; 10.	Visible 066°-286°.
NISOS LEVKAS:							
14560 <i>E 3832</i>	-Citadel, N. battlement.	38° 50.8' N 20° 43.2' E	Fl.(2)W.R. period 12s fl. 1s, ec. 2s fl. 1s, ec. 8s	57 17	W. R. 8 5	White square masonry tower, dwelling; 19.	R. 075°-120°, W.-255°.
14564 <i>E 3834</i>	-Dhiorix Levkadhos, N. mole, head.	38° 50.9' N 20° 43.3' E	Fl.G. period 1.5s	33 10	3	Metal framework tower on hut, green band.	
14568 <i>E 3835</i>	-Nisis Sesoula.	38° 41.8' N 20° 32.4' E	Fl.W. period 4.5s fl. 0.5s, ec. 4s	121 37	8	Iron tower and mast.	
14572 <i>E 3836</i>	-Akra Dhoukaton.	38° 33.9' N 20° 32.5' E	Fl.W. period 10s fl. 0.2s, ec. 9.8s	229 70	24	Concrete tower on W. side of house; 49.	Visible 246°-174°.
14576 <i>E 3837</i>	-Ormos Vasilikis, pier, head.	38° 37.7' N 20° 36.4' E	F.G.	16 5	3	White metal column.	Visible 037°-314°.
14580 <i>E 3840</i>	Akra Eliar.	38° 40.0' N 20° 48.5' E	Fl.W.R. period 8s fl. 1s, ec. 7s	39 12	W. R. 10 7	Column on white round hut; 15.	R. 070°-165°, W.-019°, obscured elsewhere.
14584 <i>E 3842</i>	-Nisis Volios, Ormos Dhrepanov, NE. side.	38° 47.7' N 20° 43.7' E	Fl.W.R. period 1.5s fl. 0.2s, ec. 1.3s	26 8	W. R. 5 3	House.	R. 293°-335°, W.-181°.
14588 <i>E 3844</i>	--Akra Kefali.	38° 45.4' N 20° 45.9' E	Fl.W. period 4s fl. 0.4s, ec. 3.6s	36 11	5	Metal column on round hut.	Visible 292°-162°.
14592 <i>E 3850</i>	Palairos (Zaverdha), mole, head.	38° 46.9' N 20° 52.8' E	Fl.G. period 1.5s fl. 0.2s, ec. 1.3s	23 7	3	Metal column on hut, concrete base, green band.	

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GREECE-WEST COAST-IONIOI NISOI (IONIAN ISLANDS)							
14596 <i>E 3852</i>	Akra Kamilafka.	38° 40.2' N 20° 55.5' E	Fl.(3)W. period 10s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 6.7s	75 23	7	Iron tower.	
14600 <i>E 3853</i>	Akra Mitika.	38° 39.7' N 20° 56.9' E	Fl.W. period 1.5s fl. 0.2s, ec. 1.3s	23 7	4	Round iron tower, framework obelisk.	Visible 278°-149°.
14604 <i>E 3854</i>	Nisos Kalamos, Akra Astroyiali.	38° 39.1' N 20° 57.5' E	Fl.W. period 10s fl. 1s, ec. 9s	46 14	5	Metal framework on white square hut; 20.	
14608 <i>E 3855</i>	-Limeniskos Kalamos.	38° 37.4' N 20° 56.0' E	Fl.R. period 3s fl. 0.4s, ec. 2.6s	20 6	3	Metal framework on white square hut, red band; 20.	
14612 <i>E 3846</i>	Nisis Formikoula.	38° 34.0' N 20° 51.3' E	Fl.W.R. period 3s fl. 0.5s, ec. 2.5s	56 17	W. 8 R. 5	House, white lantern; 15.	W. 180°-000°, R.-180°.
14616 <i>E 3896</i>	Nisis Kaloyeros, NE. peak.	38° 29.6' N 21° 01.9' E	Fl.W. period 4s fl. 0.4s, ec. 3.6s	138 42	8	Round lantern house; 13.	Visible 083°-316°.
14620 <i>E 3898</i>	Ormos Astakou, pier, head.	38° 31.8' N 21° 05.6' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	21 6	3	Metal tower, red band.	
14624 <i>E 3900</i>	Ormos Platyiiali, Akra Karloglossa.	38° 28.5' N 21° 05.0' E	Q.R.	26 8	2	Framework tower, red band.	Visible 261°-186°.
14625 <i>E 3901</i>	-Platygiiali Bay, N. entrance.	38° 28.5' N 21° 05.3' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	30 9	3	Metal framework with gallery and column, red band.	
14626 <i>E 3901.2</i>	--S. entrance.	38° 28.2' N 21° 05.7' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	23 7	3	Metal framework with gallery and column, green band.	
14628 <i>E 3902</i>	Nisis Pondikos, W. extremity.	38° 27.4' N 21° 03.6' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	42 13	8	Metal column on round hut.	Visible 332°-186°.
14632 <i>E 3904</i>	Nisis Petalas, Akra Aspro.	38° 23.7' N 21° 06.1' E	Fl.W. period 2s fl. 0.2s, ec. 1.8s	39 12	4	Metal column, on hut.	Visible 242°-140°.
14636 <i>E 3906</i>	Nisis Makropoula (Kouneli).	38° 21.1' N 21° 03.2' E	Fl.W. period 8s fl. 1s, ec. 7s	92 28	6	Metal round hut, red band.	
14640 <i>E 3908</i>	Akra Oxia.	38° 17.1' N 21° 06.0' E	Fl.(2)W. period 15s fl. 0.1s, ec. 4.9s fl. 0.1s, ec. 9.9s	233 71	17	Gray round stone tower, stone dwelling; 26.	Visible 260°-140°.
NISOS ITHAKI:							
14644 <i>E 3866</i>	-Akra Pisaetou.	38° 21.8' N 20° 40.0' E	Fl.W. period 5s fl. 0.3s, ec. 4.7s	65 20	6	Round hut.	
14648 <i>E 3858</i>	-Akra Ayiou Nikolaou.	38° 29.4' N 20° 40.8' E	Fl.(3)W. period 15s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 11.7s	49 15	7	White metal beacon on square hut.	Visible 147°-335°.
14652 <i>E 3859</i>	-Ormos Frikas, S. mole, head.	38° 27.6' N 20° 39.9' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	19 6	2	Metal framework on hut, red band.	
14656 <i>E 3860</i>	-Limin Vathi.	38° 23.1' N 20° 42.2' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	79 24	5	White round hut.	

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GREECE-WEST COAST-IONIOI NISOI (IONIAN ISLANDS)							
14660 <i>E 3861</i>	--Skartsoumbonisi.	38° 22.6' N 20° 42.0' E	Fl.G. period 4s fl. 0.3s, ec. 3.7s	29 9	3	Metal tower on column, green band.	Visible 018°-322°.
14664 <i>E 3862</i>	--Nisis Loimokathartirion.	38° 22.2' N 20° 42.8' E	Q.G.	26 8	2	Hut, concrete column, green band.	
14668 <i>E 3864</i>	-Akra Ayiou Ioannou.	38° 19.2' N 20° 46.1' E	Fl.W. period 10s fl. 1s, ec. 9s	39 12	10	Metal framework on square hut; 20.	
NISOS KEFALLINIA:							
14672 <i>E 3876</i>	-Akra Fiskardhon.	38° 27.7' N 20° 35.0' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	92 28	7	Square masonry tower; 39.	Obscured by shore on bearings eastward of 155°.
14676 <i>E 3874</i>	-Ormos Ayios Evfemias, mole, head.	38° 18.2' N 20° 36.1' E	Q.G.	23 7	2	Metal tower.	
14680 <i>E 3872</i>	-Sami, mole, head.	38° 15.3' N 20° 38.8' E	Fl.R. period 2s fl. 0.5s, ec. 1.5s	30 9	4	Metal framework with gallery and metal column, red band; 21.	
14684 <i>E 3870</i>	-Akra Dhik Halia.	38° 16.9' N 20° 40.6' E	Fl.(2)R. period 8s fl. 0.3s, ec. 1.4s fl. 0.3s, ec. 6s	56 17	5	Metal framework on white round hut, red band; 18.	
14688 <i>E 3869.4</i>	-Ormos Porou, pier, head.	38° 08.9' N 20° 46.9' E	Q.G.	23 7	3	Metal framework on round hut, green band; 16.	
14690 <i>E 3869.42</i>	--NE. mole, head.	38° 08.9' N 20° 46.9' E	Fl.R. period 4s fl. 0.4s, ec. 3.6s	26 8	5	Metal framework with gallery and metal column, red band.	
14692 <i>E 3869.7</i>	-Akra Sarakini.	38° 09.0' N 20° 47.2' E	Fl.W. period 4s fl. 0.3s, ec. 3.7s	52 16	5	White round hut with metal framework; 20.	
14696 <i>E 3869</i>	-Akra Kapri.	38° 06.7' N 20° 48.5' E	Fl.(3)W.R. period 9s fl. 0.3s, ec. 1.5s fl. 0.3s, ec. 1.5s fl. 0.3s, ec. 5.1s	66 20	W. 6 R. 4	Metal framework tower on round hut; 16.	W. 190°-354°, R.-017°.
14700 <i>E 3868</i>	-Akra Katelios.	38° 03.8' N 20° 44.6' E	Fl.(2)W.R. period 15s fl. 0.6s, ec. 2.4s fl. 0.6s, ec. 11.4s	262 80	W. 11 R. 8	Metal framework tower on hut.	R. 262°-302°, W.-100°.
14704 <i>E 3882</i>	-Nisis Vardhianoï, Kolpos Argostolin, entrance..	38° 08.1' N 20° 25.7' E	Fl.W.R. period 7.5s fl. 0.6s, ec. 6.9s	40 12	W. 6 R. 4	Round stone tower; 26.	R. 200°-222°, W.-080°, R.-107°, obsc.-200°.
-Kolpos Argostoliou:							
14708 <i>E 3890</i>	--Akra Ayious Theodoros.	38° 11.5' N 20° 28.1' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	23 7	5	Round white building on column.	Visible 352°-213°.
14712 <i>E 3892</i>	--Argostolion, shoal, E. head.	38° 11.2' N 20° 29.5' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	16 5	3	Metal pyramidal tower.	
14716 <i>E 3884</i>	--Lixourion, S. mole, head.	38° 12.2' N 20° 26.3' E	Fl.R. period 1.5s fl. 0.2s, ec. 1.3s	23 7	3	Concrete column on concrete base; red band.	Visible 009°-345°. Fl. G. 1.5s marks head of N. mole.
14720 <i>E 3880</i>	-Akra Yerogombos.	38° 10.9' N 20° 20.4' E	L.Fl.(2)W. period 15s fl. 3s, ec. 2s fl. 3s, ec. 7s	190 58	24	Round masonry tower, dwelling; 42.	Obscured when bearing more than 151°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GREECE-WEST COAST-IONIOI NISOI (IONIAN ISLANDS)							
NISOS ZAKINTHOS:							
14724 <i>E 3984</i>	-Akra Skinari.	37° 56.0' N 20° 42.0' E	Fl.W. period 5s fl. 0.3s, ec. 4.7s	216 66	20	Round masonry tower, dwelling; 29.	
14726 <i>E 3985</i>	-Ayios Nikolaos.	37° 54.4' N 20° 42.8' E	Fl.W. period 2s fl. 0.3s, ec. 1.7s	33 10	7	White round hut with metal framework.	
14728 <i>E 3986</i>	-Akra Krioneri.	37° 48.4' N 20° 54.3' E	Fl.(2)W. period 16s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 12.5s	75 23	6	Square concrete tower.	Visible 131°-359°.
14736 <i>E 3989</i>	-Zakinthou, S. breakwater, head.	37° 46.9' N 20° 54.2' E	Fl.R. period 1.5s fl. 0.3s, ec. 1.2s	26 8	4	Column with gallery on white hexagonal hut, red band; 25.	
14737 <i>E 3988</i>	--N. breakwater, head.	37° 46.9' N 20° 54.4' E	Fl.G. period 1.5s	26 8	5	Square hut, column and gallery.	
14740 <i>E 3990</i>	-Akra Kerion.	37° 39.3' N 20° 48.5' E	Fl.W. period 10s fl. 0.4s, ec. 9.6s	636 194	17	Round tower on dwelling; 23.	
PATRAIKOS KOLPOS:							
14744 <i>E 3910</i>	-Akra Araxos.	38° 12.9' N 21° 22.4' E	L.Fl.(2)W. period 20s fl. 2s, ec. 6s fl. 2s, ec. 10s	20 6	10	Iron framework structure.	Visible 012°-261°.
14752 <i>E 3918</i>	-Liminiskos Alikon, Kato Akhaia, pier, head.	38° 09.4' N 21° 32.2' E	Fl.W.R. period 3s fl. 0.3s, ec. 2.7s	26 8	W. 5 R. 3	Metal framework with gallery.	W. 120°-270°, R.-120°.
14756 <i>E 3912</i>	-Nisis Ayios Sostis.	38° 19.1' N 21° 22.3' E	Fl.W.R. period 5s fl. 0.1s, ec. 4.9s	39 12	W. 17 R. 14	White round masonry tower; 37.	R. 293°-010°, W.-059°, obs.-198°, W.-203°, obscured elsewhere. Reserve light F.W. Visibility may be considerably reduced during the summer.
14761 <i>E 3928</i>	-Marina Patron, breakwater, N. head.	38° 16.0' N 21° 44.3' E	F.G.	20 6	1	White metal column, green band.	
14761.5 <i>E 3928.2</i>	--Breakwater, S. head.	38° 15.6' N 22° 44.2' E	F.R.	16 5	1	White metal column, red band.	
14763 <i>E 3919</i>	--Breakwater, head.	38° 15.6' N 21° 44.0' E	Fl.G. period 5s fl. 1s, ec. 4s	26 8	8	Pillar with gallery, green band on hexagonal hut.	
14763.5 <i>E 3922</i>	--Provlita Astingos, head.	38° 15.2' N 21° 44.1' E	Fl.R. period 5s fl. 1s, ec. 4s	23 7	8	White metal framework, red band; 20.	
14764 <i>E 3926</i>	--Molos Kalavritas, head.	38° 14.9' N 21° 43.7' E	Fl.G. period 1.5s fl. 0.3s, ec. 1.2s	23 7	3	Metal framework on square hut, green band; 20.	
14768 <i>E 3927</i>	Ayios Andreas, mole, head.	38° 14.8' N 21° 43.6' E	Fl.G. period 6s fl. 1s, ec. 5s	26 8	10	Metal column with gallery, green band.	
14776 <i>E 3920</i>	--Detached breakwater, elbow.	38° 15.3' N 21° 44.0' E	Fl.G. period 1.5s fl. 0.3s, ec. 1.2s	10 3	3	Metal tower, green band; 7.	Visible 180°-035°.
14780 <i>E 3936</i>	--Akra Ayia.	38° 16.9' N 21° 44.6' E	Fl.(2)G. period 6s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 4.2s	22 7	4	Iron framework tower on round hut, green band.	Visible 022°-250°.

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GREECE-WEST COAST-IONIOI NISOI (IONIAN ISLANDS)							
KORINTHIAKOS KOLPOS:							
14784 <i>E 3938</i>	-Akra Andirion, entrance, N. side.	38° 19.6' N 21° 45.9' E	Fl.(2)W. period 10s fl. 0.8s, ec. 2.2s fl. 0.8s, ec. 6.2s	52 16	10	Round tower, dwelling; 30.	
14788 <i>E 3940</i>	-Akra Rion.	38° 18.7' N 21° 46.7' E	Fl.W. period 6s fl. 1s, ec. 5s	52 16	6	Metal framework on white round hut.	
14792 <i>E 3942</i>	-Navpaktos.	38° 23.5' N 21° 49.7' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	43 13	3	Metal column; 20.	
14796 <i>E 3946</i>	-Akra Mornos.	38° 22.1' N 21° 52.4' E	Fl.(3)W. period 15s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 11.7s	23 7	7	Metal framework on square hut; 20.	
14798 <i>E 3954.2</i>	-Akra Marathias, W. mole, head.	38° 23.4' N 22° 00.0' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	26 8	4	Metal framework, gallery, metal column, red band.	
14798.5 <i>E 3954.22</i>	--E. mole, head.	38° 23.4' N 22° 00.0' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	26 8	4	Metal framework, gallery, metal column, green band.	
14800 <i>E 3952</i>	-Nisis Trizonia, E. side.	38° 22.0' N 22° 04.7' E	Fl.W. period 4s fl. 0.8s, ec. 3.2s	33 10	4	Iron column on hut.	
14804 <i>E 3956</i>	-Akra Psaromita.	38° 19.2' N 22° 10.9' E	Fl.(2)W. period 15s fl. 0.1s, ec. 4.9s fl. 0.1s, ec. 9.9s	213 65	21	Round masonry tower, dwelling; 30.	Visible 226°-143°.
14808 <i>E 3962.4</i>	-Eratini.	38° 22.0' N 22° 14.0' E	2 F.R. (vert.)	23 7	3	Framework tower on dwelling.	1 meter apart.
14812 <i>E 3958</i>	-Akra Andromakhi.	38° 19.8' N 22° 22.5' E	Fl.(3)W. period 15s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 9s	53 16	10	Metal framework tower on round hut; 16.	Visible 235°-087°.
14816 <i>E 3960</i>	-Ormos Galaxidhiou, Nisis Apsifia.	38° 22.7' N 22° 24.0' E	Fl.W. period 7s fl. 0.5s, ec. 6.5s	46 14	5	Metal framework tower on hut.	Visible 111°-357°.
14820 <i>E 3962</i>	-Ormos Galaxidhiou.	38° 22.8' N 22° 23.2' E	Fl.R.G. period 1.5s fl. 0.3s, ec. 1.2s	39 12	3	Metal framework on round hut; 16.	R. 080°-216°, G.-347°, obsc.-080°.
14824 <i>E 3963</i>	-Itea, pier, head.	38° 25.8' N 22° 25.5' E	Fl.R.G. period 3s fl. 0.3s, ec. 2.7s	29 9	4	White hexagonal hut, column and gallery.	G. 295°-355°, R.-030°, G.-111°.
14828 <i>E 3964</i>	-Akra Makri-Nicolaos.	38° 17.0' N 22° 33.0' E	Fl.W. period 4.5s fl. 0.3s, ec. 4.2s	56 17	5	Truncated pyramidal iron structure.	
14832 <i>E 3970</i>	-Ormos Andikiron, entrance, W. side.	38° 21.6' N 22° 38.8' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	62 19	4	Framework tower on hut.	
14834 <i>E 3965</i>	-Saranti Bay.	38° 14.0' N 22° 53.2' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework with gallery, red band.	
14834.3 <i>E 3965.03</i>	-Fonas, W. head.	38° 10.4' N 22° 56.7' E	Fl.(2)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	52 16	7	Metal framework.	
14834.7 <i>E 3965.07</i>	--E. head.	38° 10.6' N 22° 58.3' E	Fl.R. period 4s fl. 0.4s, ec. 3.6s	33 10	4	Metal framework, red band.	

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GREECE-WEST COAST-IONIOI NISOI (IONIAN ISLANDS)							
14835 <i>E 3965.1</i>	-Grompoloura.	38° 10.9' N 22° 58.9' E	FI.G. period 4s fl. 0.3s, ec. 3.7s	23 7	4	Metal framework, green band.	
14835.3 <i>E 3965.13</i>	-Cape Tsarla.	38° 11.4' N 22° 58.1' E	FI.R. period 3s fl. 0.3s, ec. 2.7s	20 6	4	Metal framework, red band.	
14835.7 <i>E 3965.16</i>	-Cape Ioannis.	38° 12.7' N 22° 57.3' E	FI.G. period 3s fl. 0.3s, ec. 2.7s	23 7	4	Metal framework, green band.	
14836 <i>E 3965.2</i>	-Alyki Bay.	38° 11.8' N 23° 02.8' E	FI.R. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework with gallery, red band.	
14838 <i>E 3965.4</i>	-Vasileios Bay.	38° 10.9' N 23° 08.5' E	FI.G. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework with gallery, green band.	
14840 <i>E 3971</i>	-Germano, W. mole, head.	38° 09.5' N 23° 13.2' E	FI.R. period 2s fl. 0.3s, ec. 1.7s	23 7	3	Metal framework, gallery and column, red band.	FI.G. 2s marks E. mole head.
14844 <i>E 3972</i>	-Akra Melangavi.	38° 01.7' N 22° 51.0' E	FI.W. period 10s fl. 0.3s, ec. 9.7s	190 58	17	Square masonry tower and dwelling; 43.	
	-Korinthos:						
14848 <i>E 3974</i>	--Loutraki, pier, head.	37° 58.7' N 22° 58.4' E	F.R.	19 6	1	Metal column.	
14852 <i>E 3976</i>	--Posidhonia, Dhiorix Korinthou, entrance, N. mole, head.	37° 57.0' N 22° 57.0' E	Iso.R. period 2s	33 10	10	Metal framework column.	Dhiorix Korinthou is lighted by electric lights. A W. light shown from flagstaff indicates that vessels can enter, 2 W. lights prohibit entry.
14856 <i>E 3977</i>	---S. mole, head.	37° 57.1' N 22° 57.5' E	Iso.G. period 2s	33 10	10	Metal framework column.	
14857 <i>E 3978.9</i>	--S. mole, head.	37° 56.4' N 22° 56.2' E	F.R.	20 6	3	PORT (A) R, beacon; 16.	
14857.1 <i>E 3978.91</i>	--N. mole, head.	37° 56.5' N 22° 56.2' E	F.G.	23 7	3	STARBOARD (A) G, beacon; 16.	
14860 <i>E 3979</i>	--Pierhead, about 2.4 km. 250° from Posedhonia, S. mole.	37° 57.0' N 22° 56.0' E	FI.G. period 3s fl. 0.3s, ec. 2.7s	33 10	3	White column with gallery green band on white hexagonal hut.	
14864 <i>E 3973</i>	-Kiaton, jetty, head.	38° 01.0' N 22° 45.0' E	FI.G. period 3s fl. 1s, ec. 2s	26 8	6	Concrete column.	
14868 <i>E 3967</i>	-Akra Likoporia.	38° 08.0' N 22° 29.0' E	FI.(2)W. period 16s fl. 1s, ec. 2s fl. 1s, ec. 12s	56 17	10	Iron framework tower with gallery, on hut; 49.	Visible 109°-297°.
14872 <i>E 3950</i>	-Ormos Aiyou, S. side of gulf, pier, head.	38° 15.0' N 22° 05.0' E	FI.R. period 1.5s fl. 0.2s, ec. 1.3s	26 8	6	Metal framework on hut; 16.	
14876 <i>E 3948</i>	-Akra Dhrepanon.	38° 20.0' N 21° 51.0' E	FI.W. period 10s fl. 0.3s, ec. 9.7s	29 9	22	Round masonry tower; 23.	
14880 <i>E 3996</i>	Nisis Kavkalidha.	37° 56.5' N 21° 07.1' E	L.FI.W.R. period 10s fl. 2s, ec. 8s	69 21	W. 12 R. 9	Square masonry tower, dwelling; 49.	W. 016°-059°, R.-092°, W.-211°, obsc.-016°. Reserve light F.W.R.
14884 <i>E 3997</i>	Akra Tripiti.	37° 51.0' N 21° 07.0' E	FI.(3)W. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	23 7	7	Metal framework on white round hut; 17.	Visible 291°-149°.

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GREECE-WEST COAST-IONIOI NISOI (IONIAN ISLANDS)							
14888 <i>E 3997.5</i>	<i>Gastouni, LIGHTFLOAT.</i>	37° 47.1' N 21° 14.0' E	Fl.Y. period 2s	26 8	3	Black float, framework tower; 26.	
14892 <i>E 3998</i>	Akra Katakolon.	37° 38.0' N 21° 19.0' E	Fl.W. period 4s fl. 1s, ec. 3s	161 49	15	Octagonal gray masonry tower and dwelling; 29.	
14896 <i>E 4000</i>	Ormos Katakolou, pier, head.	37° 39.0' N 21° 20.0' E	Fl.R. period 3s fl. 0.4s, ec. 2.6s	30 9	4	White round hut, red band; 28.	
NISOI STROFADHES:							
14900 <i>E 4004</i>	-Nisis Stamfani.	37° 15.2' N 21° 00.3' E	Fl.(2)W. period 15s fl. 0.1s, ec. 4.9s fl. 0.1s, ec. 9.9s	127 39	17	Square tower and dwellings; 36.	
14904 <i>E 4006</i>	Nisis Proti, S. point.	37° 02.0' N 21° 33.0' E	Fl.W. period 1.5s fl. 0.3s, ec. 1.2s	32 10	6	White round hut.	
ORMOS NAVARINOU:							
14908 <i>E 4008</i>	-Nisis Pilos, SE. point, N. side of entrance to bay.	36° 54.4' N 21° 40.4' E	Fl.(2)W. period 10s fl. 0.4s, ec. 1.2s fl. 0.4s, ec. 8s	118 36	7	Metal framework with gallery.	Visible 190°-146°.
14912 <i>E 4009</i>	-Akra Neokastron.	36° 54.8' N 21° 41.3' E	Fl.G. period 3s fl. 0.4s, ec. 2.6s	49 15	6	Column on concrete hut	
14916 <i>E 4010</i>	-Pilos, pier, head.	36° 55.0' N 21° 41.7' E	F.G.	13 4	3	Metal framework pillar; 10.	Fl.G. 3s 3M and Fl.R. 3s 3M mark marina 600 meters ENE.
14920 <i>E 4011</i>	-Nisis Helonisi.	36° 57.0' N 21° 41.0' E	Fl.W.R. period 3s fl. 0.3s, ec. 2.7s	36 11	W. 4 R. 2	Concrete column on hexagonal pedestal, red band.	W. 113°-095°, R.-113°.
14924 <i>E 4014</i>	Methoni, pier, head.	36° 49.0' N 21° 42.0' E	Fl.R. period 3s fl. 0.2s, ec. 2.8s	23 7	3	Metal round tower.	Visible 153°-034°.
NISIS SAPIENTZA:							
14928 <i>E 4015</i>	-N. point (Akra Karsi).	36° 48.0' N 21° 42.0' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	72 22	5	Quadrangular iron pyramid; 8.	Visible 046°-296°.
14932 <i>E 4016</i>	-S. summit.	36° 44.5' N 21° 41.8' E	Fl.(3)W. period 20s fl. 0.2s, ec. 3.1s fl. 0.2s, ec. 3.1s fl. 0.2s, ec. 13.2s	381 116	22	Octagonal tower, dwelling; 31.	Visible 305°-172°.
14940 <i>E 4017</i>	Nisis Venetiko, N. point.	36° 42.0' N 21° 53.0' E	Fl.W. period 9s fl. 0.5s, ec. 8.5s	26 8	7	Metal framework on white round hut; 18.	
MESSINIAKOS KOLPOS:							
14944 <i>E 4018</i>	-Koroni, mole, head.	36° 48.0' N 21° 58.0' E	Fl.R. period 1.5s fl. 0.2s, ec. 1.3s	26 8	3	Metal framework on round hut.	
14948 <i>E 4020</i>	-Akra Livadhia.	36° 48.0' N 21° 58.0' E	Fl.W. period 1.5s fl. 0.4s, ec. 1.1s	62 19	5	Metal framework on white round hut; 18.	Visible 126°-039°.
14952 <i>E 4022</i>	-Akra Petalidhi.	36° 58.0' N 21° 56.0' E	Fl.W. period 4s fl. 0.4s, ec. 3.6s	23 7	5	Metal framework on white round hut; 18.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GREECE-WEST COAST-IONIOI NISOI (IONIAN ISLANDS)							
14956 E 4026	-Kalamai, S. jetty, head.	37° 01.0' N 22° 07.0' E	Fl.R. period 1.5s fl. 0.2s, ec. 1.3s	33 10	3	Concrete column, hut.	
14960 E 4030	--Inner mole, head.	37° 01.3' N 22° 06.9' E	Q.G.	16 5	3	Column on white round hut, green band; 13.	
14964 E 4028	--New E. mole, head.	37° 00.8' N 22° 07.5' E	Fl.G. period 1.5s fl. 0.2s, ec. 1.3s	30 9	3	Hut, concrete column.	
14968 E 4032	-Akra Kitries.	36° 55.0' N 22° 07.0' E	Fl.(2)W. period 12s fl. 0.8s, ec. 1.4s fl. 0.8s, ec. 9s	105 32	7	Square tower on dwelling; 36.	
14972 E 4036	-Kardhamili, jetty, N.	36° 53.0' N 22° 14.0' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	33 10	5	Metal column on white round hut; 16.	Visible 352°-093°.
14976 E 4038	-Selenitsa.	36° 49.0' N 22° 18.0' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	33 10	5	Metal column on round hut.	
14980 E 4040	-Ormos Limeniou, entrance, S. side.	36° 40.7' N 22° 22.2' E	Fl.W. period 1.5s fl. 0.2s, ec. 1.3s	46 14	6	Metal framework tower on pedestal; 7.	
14984 E 4042	-Mezapos.	36° 32.7' N 22° 23.3' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	52 16	5	Iron truncated pyramid; 8.	
LAKONIKOS KOLPOS:							
14988 E 4044	-Gerolimena.	36° 28.6' N 22° 23.7' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	59 18	6	Metal framework tower on pedestal; 18.	
14992 E 4048	-Akra Tainaron.	36° 23.1' N 22° 28.8' E	Fl.(2)W. period 20s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 17.3s	135 41	22	Square masonry tower, dwelling; 52.	
15000 E 4050	-Porto Kayio, Akra Tainaron, E. side.	36° 25.8' N 22° 29.3' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	64 20	8	White pedestal.	Visible 220°-327°.
15004 E 4051	-Ormos Melingani.	36° 30.6' N 22° 29.3' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	49 15	4	Metal framework tower on pedestal, green band.	Visible 183°-015°.
15008 E 4052	-Limin Yithion, Nisis Kranai, E. head.	36° 45.1' N 22° 34.5' E	Fl.(3)W. period 18s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 12.7s	75 23	9	Octagonal tower; dwelling; 75.	
15012 E 4054	--Jetty, head.	36° 45.3' N 22° 34.1' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework tower, red band.	
15016 E 4058	-Molaon, E. side of gulf, mole, head.	36° 45.0' N 22° 47.8' E	Fl.G. period 1.5s fl. 0.2s, ec. 1.3s	33 10	3	Metal framework tower on pedestal, green band.	
15020 E 4060	-Akra Xilis.	36° 39.3' N 22° 49.2' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	39 12	5	Metal framework tower on pedestal.	Visible 191°-042°.
15024 E 4062	-Ormos Xilis, Plitra, mole, head.	36° 41.2' N 22° 50.3' E	Q.G.	26 8	3	Metal framework; 8.	
15028 E 4073	Vrakhos Stavros.	36° 30.8' N 22° 58.7' E	Fl.R.G. period 1.5s fl. 0.3s, ec. 1.2s	20 6	3	Metal framework on white round hut; 18.	R. 000°-180°, G. elsewhere.
15036 E 4074	Ormos Vatika.	36° 29.2' N 23° 03.9' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	52 16	7	White round hut; 12.	

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GREECE-WEST COAST-IONIOI NISOI (IONIAN ISLANDS)							
15040 <i>E 4076</i>	Akra Zovollo.	36° 25.7' N 23° 07.8' E	Fl.W. period 7s fl. 1s, ec. 6s	43 13	12	White round hut.	Visible 263°-095°.
15044 <i>E 4078</i>	Akra Maleas.	36° 27.1' N 23° 12.1' E	Fl.W. period 10s fl. 0.3s, ec. 9.7s	131 40	17	Square tower, dwelling; 49.	Visible 175°-345°.
NISOS KITHIRA:							
15048 <i>E 4066</i>	-Akra Spathi.	36° 22.7' N 22° 57.8' E	Fl.(3)W. period 30s fl. 0.1s, ec. 4.9s fl. 0.1s, ec. 4.9s fl. 0.1s, ec. 19.9s	374 114	20	Round masonry tower, dwelling; 82.	Visible 062°-319°.
15050 <i>E 4071</i>	-Ayia Pelayia.	36° 19.6' N 22° 59.1' E	Fl.R. period 1.5s fl. 0.1s, ec. 1.4s	19 6	3	White framework tower on pedestal, red band.	
15052 <i>E 4068</i>	-Ormos Kapsaliou, E. side.	36° 08.5' N 22° 59.9' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	79 24	10	White tower on dwelling; 26.	Visible 327°-030°.
15060 <i>E 4070</i>	-Ormos Ayiou Nikolaou, entrance, SE. side.	36° 13.3' N 23° 04.8' E	Fl.G. period 1.5s fl. 0.2s, ec. 1.3s	26 8	3	Metal column on pedestal, green band.	
15062 <i>E 4070.3</i>	-Diakofti, mole, head.	36° 16.2' N 23° 04.6' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	30 9	3	Metal framework tower, red band.	
15064 <i>E 4065</i>	-Vrakhonisis Andidragonera.	36° 14.2' N 23° 07.1' E	Fl.(3)W. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	46 14	7	Metal framework; 13.	
15068 <i>E 4070.6</i>	-Diakofti Kithiron, on Vrakhonisis Makronisos.	36° 16.5' N 23° 04.8' E	Fl.W. period 10s fl. 1s, ec. 9s	59 18	7	Metal framework on white square hut; 20.	
NISOS ANDIKITHIRA:							
15076 <i>E 4072</i>	-Akra Apolitares.	35° 49.5' N 23° 19.5' E	Fl.(2)W. period 15s fl. 0.1s, ec. 4.9s fl. 0.1s, ec. 9.9s	131 40	17	Round tower and dwelling.	Visible 227°-135°.
15080 <i>E 4072.4</i>	-Akra Kastron.	35° 53.5' N 23° 17.7' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	108 33	6	Metal framework on white round hut; 18.	Visible 013°-227°.
15084 <i>E 4088</i>	Nisis Falkonera.	36° 50.2' N 23° 53.4' E	Fl.W. period 5s fl. 1s, ec. 4s	446 136	17	White round hut; 13.	Visible 169°-120°.
15088 <i>E 4090</i>	Nisis Velopoula.	36° 55.7' N 23° 27.1' E	Fl.(2)W. period 20s fl. 0.2s, ec. 3s fl. 0.2s, ec. 16.6s	367 112	22	Octagonal tower on square dwelling; 33.	Obscured 319°-342°.
GREECE							
15092 <i>E 4080</i>	Akra Monemvasia, Khers Elos, E. side.	36° 41.5' N 23° 03.5' E	Fl.W. period 5s fl. 0.6s, ec. 4.4s	49 15	11	Metal framework tower on pedestal.	
15096 <i>E 4081</i>	-Mole, head.	36° 41.4' N 23° 02.5' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	26 8	3	Metal framework with gallery and column, red band.	

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GREECE							
15100 <i>E 4082</i>	Angirolivou Palaia Monemvasia.	36° 43.9' N 23° 02.5' E	FI.G. period 1.5s fl. 0.3s, ec. 1.2s	26 8	3	Metal framework on white round hut, green band; 22.	
15104 <i>E 4086</i>	Ormos Ierakos, Akra Kastro.	36° 47.2' N 23° 05.3' E	FI.G. period 3s fl. 0.4s, ec. 2.6s	69 21	5	White round hut with column and green band.	
15108 <i>E 4092</i>	Ormos Kiparissiou, entrance, S. side.	36° 58.2' N 23° 00.3' E	FI.R. period 1.5s fl. 0.2s, ec. 1.3s	26 8	3	Iron column on hut.	
15112 <i>E 4094</i>	-Akra Aspro Khorti.	36° 59.5' N 23° 59.8' E	FI.W. period 4s fl. 0.3s, ec. 3.7s	138 42	7	Iron column; 16.	Visible 180°-050°.
ARGOLIKOS KOLPOS:							
15116 <i>E 4096</i>	-Leonidhion, W. side of entrance to gulf.	37° 08.8' N 22° 53.6' E	FI.G. period 1.5s fl. 0.2s, ec. 1.3s	30 9	3	White hut with column and gallery with green band.	
15117	-Poulithra, mole, head.	37° 07.0' N 22° 54.2' E	F.R.	23 7	3	White column, red band.	
15120 <i>E 4098</i>	-Akra Sambatikis.	37° 11.3' N 22° 54.7' E	L.FI.W. period 7.5s fl. 2s, ec. 5.5s	75 23	6	Metal framework tower on pedestal; 19.	
15124 <i>E 4104</i>	-Akra Astros.	37° 25.0' N 22° 46.2' E	FI.W. period 3s fl. 0.3s, ec. 2.7s	75 23	5	Square masonry tower with dwelling; 23.	Visible 195°-085°.
15128 <i>E 4103.5</i>	-Limn Ay Andreos, breakwater, head.	37° 22.2' N 22° 47.1' E	F.R.	23 7	5	White concrete column, red band; 22.	
15132 <i>E 4107</i>	-Ormos Navpliou, pier, head.	37° 33.3' N 22° 43.2' E	FI.R. period 3s fl. 0.3s, ec. 2.7s	26 8	4	Concrete column on 6-sided hut with red band.	Visible 107°-338°.
15134 <i>E 4106.2</i>	-Kiveri, N. breakwater, head.	37° 31.7' N 22° 43.9' E	FI.Y. period 1.5s fl. 0.2s, ec. 1.3s	23 7	3	Metal column with gallery and red band on metal framework; 17.	
15134.5 <i>E 4106</i>	--S. mole, head.	37° 31.5' N 22° 44.0' E	F.R.	20 6	3	White metal column, red band.	
15135 <i>E 4107.5</i>	Nea Kios.	37° 35.0' N 22° 44.9' E	FI.R. period 2s fl. 0.3s, ec. 1.7s	20 6	3	Metal framework with gallery and column, red band.	
15136 <i>E 4108</i>	--Akra Panayias.	37° 33.8' N 22° 47.6' E	FI.W. period 1.5s fl. 0.2s, ec. 1.3s	33 10	5	Metal framework on white round hut.	
15140 <i>E 4109</i>	--Breakwater, head.	37° 34.0' N 22° 47.5' E	FI.G. period 3s fl. 0.3s, ec. 2.7s	30 9	3	Column with gallery on 6-sided hut, green band.	
15143 <i>E 4110.6</i>	-Tolo Bay, pier, head.	37° 31.0' N 22° 52.0' E	2 F.R.	20 6	3	White metal column.	1 meter apart.
15144 <i>E 4110.4</i>	-Akra Skala.	37° 30.3' N 22° 52.5' E	FI.(2)W.R. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	75 23	W. R. 6 4	Iron framework tower.	W. 207°-315°, R.-343°, W.-075°, obscured elsewhere.
15148 <i>E 4110</i>	--Nisis Tolo, Akra Megali.	37° 30.6' N 22° 51.3' E	FI.W. period 2s fl. 0.3s, ec. 1.7s	85 26	3	White round hut with metal framework and green band.	Visible 328°-228°.
15152 <i>E 4111</i>	-Limn Khaidhari.	37° 31.4' N 22° 56.1' E	FI.(3)W.R. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	36 11	W. R. 5 3	Metal framework on hut.	W. 301°-046°, R.-058°, W.-220°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GREECE							
15156 <i>E 4112</i>	-Nisis Ipsili.	37° 25.8' N 22° 58.1' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	52 16	9	White round hut, metal framework tower; 18.	Visible 301°-157°.
15160 <i>E 4113</i>	-Ormos Koiladhos, Akra Kokkina.	37° 25.5' N 23° 06.8' E	Fl.W. period 3s fl. 0.2s, ec. 2.8s	16 5	4	White pyramid.	
15161 <i>E 4113.5</i>	--Pier, head.	37° 25.0' N 23° 07.7' E	2 F.G. (vert.)	23 7	3	White metal column.	1 meter apart.
15164 <i>E 4114</i>	-Akra Korakas.	37° 21.1' N 23° 04.0' E	Fl.W. period 7s fl. 1s, ec. 6s	39 12	11	White round hut; 7.	Visible 311°-131°.
15168 <i>E 4103</i>	-Nisis Petrokaravo, N. extremity.	37° 17.1' N 23° 04.8' E	Fl.(2)W. period 9s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 7.2s	72 22	7	White round hut; 11.	
15172 <i>E 4118</i>	-Limin Kheliou, entrance, N. side.	37° 18.9' N 23° 07.7' E	Fl.W. period 1.5s fl. 0.2s, ec. 1.3s	72 22	5	Metal framework tower, red band.	
15174 <i>E 4118.3</i>	-Cheli, SE. entrance.	37° 18.6' N 23° 08.1' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	26 8	3	White hexagonal hut with column and gallery, green band.	
15176 <i>E 4100</i>	-Nisos Spetsai.	37° 15.8' N 23° 10.1' E	Fl.W.R. period 5s fl. 0.2s, ec. 4.8s	89 27	W. 18 R. 14	White round tower and dwelling; 34.	W. 124°-254°, R.-278°, W.-330°, obscured elsewhere.
15180 <i>E 4101</i>	--Ormos Balitza, entrance, E. side.	37° 15.8' N 23° 10.0' E	Q.R.	16 5	3	White metal framework with red band; 13.	
15184 <i>E 4102</i>	--Limin Dipias.	37° 16.2' N 23° 09.5' E	F.R.	16 5	3	White concrete column, with red band.	
15188 <i>E 4099</i>	--Akra Mavrokavos.	37° 14.8' N 23° 10.0' E	Fl.W.R. period 2s fl., ec. 1.6s	21 6	W. 5 R. 3	White round hut with metal framework and red band.	W. 199°-314°, R.-333°, W.-019°, obscured elsewhere.
15192 <i>E 4120</i>	-Akra Mouzaki.	37° 21.0' N 23° 16.6' E	L.Fl.W. period 7.5s fl. 2.5s, ec. 5s	75 23	4	Metal framework tower.	Visible 127°-037°.
15196 <i>E 4124</i>	-Nisos Dhokos, Stenon Petasi, N. side.	37° 19.9' N 23° 21.3' E	Fl.(2)W.R. period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 9.5s	75 23	W. 6 R. 4	White round tower, dwelling; 29.	W. 219°-341°, R.-026°, W.-063°.
15200 <i>E 4126</i>	-Limin Idhras, E. jetty.	37° 21.2' N 23° 28.0' E	Fl.R. period 1.5s fl. 0.2s, ec. 1.3s	34 10	3	White round hut with metal framework and red band.	
15204 <i>E 4130</i>	--W. jetty, head.	37° 21.1' N 23° 28.0' E	F.G.	16 5	2	White stone column, green band.	
15208 <i>E 4127</i>	--E. breakwater, head.	37° 21.1' N 23° 28.0' E	F.R.	20 6	2	White stone column with red band.	
15210 <i>E 4119</i>	-Akra Aimilianos.	37° 17.3' N 23° 12.0' E	Fl.W.R. period 10s fl. 0.5s, ec. 9.5s	23 7	W. 8 R. 6	Hexagonal hut with column and gallery.	W. 193°-314°, R.-357°, W.-070°, obsc.-193°.
15212 <i>E 4122</i>	-Akra Kastri.	37° 23.1' N 23° 15.7' E	Fl.W. period 1.5s fl. 0.3s, ec. 1.2s	72 22	4	White square hut with two pilasters; 13.	
15216 <i>E 4134</i>	Akra Zourvas.	37° 21.9' N 23° 34.8' E	Fl.(3)W. period 20s fl. 0.1s, ec. 3.2s fl. 0.1s, ec. 3.2s fl. 0.1s, ec. 13.3s	119 36	17	Square tower on dwelling.	Visible 128°-023°.
15220 <i>E 4135</i>	Nisoi Tselevinia, Nisis Skilli.	37° 26.7' N 23° 32.8' E	Fl.W. period 3s fl. 0.6s, ec. 2.4s	102 31	8	Iron tower.	Visible 078°-010°.

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GREECE							
15224 <i>E 4136</i>	-Nisis Ayios Yeoryios.	37° 27.8' N 23° 56.3' E	Fl.(2)W. period 15s fl. 0.1s, ec. 4.9s fl. 0.1s, ec. 9.9s	476 145	17	Round tower on dwelling.	Obscured 116°-169°.
SARONIKOS KOLPOS:							
-Nisos Poros:							
15228 <i>E 4140</i>	--Akra Dana.	37° 31.7' N 23° 25.6' E	Fl.W.R. period 4s fl. 0.5s, ec. 3.5s	105 32	W. 8 R. 5	Square tower on dwelling; 30.	W. 026°-200°, R.-209°, W.-266°.
15232 <i>E 4140.3</i>	--Akra Nedha.	37° 31.2' N 23° 25.6' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	20 6	2	Metal column on white round hut.	Visible 299°-214°.
15236 <i>E 4141</i>	--Akra Stavros, island, S. point.	37° 29.7' N 23° 27.8' E	Fl.G.R. period 3s fl. 0.3s, ec. 2.7s	23 7	G. 4 R. 4	Metal framework tower on dwelling.	G. 253°-284°, R.-309°, G.-110°, obsc.-253°.
15240 <i>E 4141.2</i>	-Methana.	37° 34.5' N 23° 23.4' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	26 8	3	White square cement column with gallery and green band; 20.	2 F.R. (vert.) light marks pier close N.
15244 <i>E 4141.3</i>	--Marina entrance, E. side.	37° 34.7' N 23° 23.4' E	Q.G.	23 7	3	Column with gallery, green band.	Q.R. 1M marks W. side of entrance.
15248 <i>E 4154</i>	-Nisis Moni, W. point.	37° 41.2' N 23° 25.5' E	Fl.(2)W.R.G. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	68 21	W. 11 R. 8 G. 8	Beacon on square base.	W. 296°-322°, R.-336°, W.-075°, G.-165°, W.-173°, R.-187°, W.-223°.
-Nisos Aiyina:							
15252 <i>E 4144</i>	--Akra Plakakia.	37° 45.8' N 23° 25.1' E	Fl.(2)W. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 12.5s	36 11	7	Round masonry tower; 20.	
15256 <i>E 4148</i>	--Aiyina, N. mole, head.	37° 44.7' N 23° 25.5' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	23 7	7	White round hut with metal framework; 17.	
15260 <i>E 4149</i>	---Near root.	37° 44.8' N 23° 25.6' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	26 8	4	Metal framework on white round hut, red band; 18.	
15264 <i>E 4150</i>	--SE. mole, head.	37° 44.8' N 23° 25.7' E	Fl.G. period 1.5s fl. 0.2s, ec. 1.3s	19 6	3	Metal framework on white round hut, green band.	
15266 <i>E 4153</i>	-Ayia Marina, pier, head.	37° 44.7' N 23° 32.3' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	16 5	3	Metal framework tower, gallery and column, green band.	
15268 <i>E 4152</i>	-Akra Tourlos.	37° 45.8' N 23° 33.9' E	Fl.W. period 3.6s fl. 0.5s, ec. 3.1s	92 28	5	White square hut, metal framework; 20.	Visible 177°-024°.
15270 <i>E 4151</i>	-Leonti, mole, head.	37° 46.4' N 23° 28.1' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework with gallery; 20.	
15272 <i>E 4158</i>	-Nisos Lagousa, E. point.	37° 48.9' N 23° 28.6' E	L.Fl.W. period 7.5s fl. 2s, ec. 5.5s	39 12	5	Metal framework tower.	Visible 130°-049°.
-Kolpos Epidhavrou:							
15276 <i>E 4141.5</i>	--Vathi, W. side of Khersonisos Methanon.	37° 35.7' N 23° 20.3' E	F.R.	39 12	3	White concrete column, red band.	
15280 <i>E 4141.6</i>	-Limn Palaias Ediphavron, Akra Yiannouzaina (Kalamaki).	37° 38.5' N 23° 10.2' E	Fl.W. period 2s fl. 0.4s, ec. 1.6s	33 10	6	Metal column on pedestal.	Visible 185°-095°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GREECE							
15284 <i>E 4141.64</i>	--N. side of channel.	37° 38.3' N 23° 09.7' E	Q.G.	16 5	3	Concrete column on pedestal, green band.	
15288 <i>E 4141.66</i>	---S. side.	37° 38.3' N 23° 09.7' E	Q.R.	16 5	3	Concrete column on pedestal, red band.	
15292 <i>E 4141.7</i>	--Pier, head.	37° 38.4' N 23° 09.5' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	26 8	3	Concrete column on pedestal, red band.	Visible 253°-280°.
15296 <i>E 4141.8</i>	-Ormos Neas Epidhavrou.	37° 40.7' N 23° 09.1' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Concrete column on pedestal, red band.	Visible 257°-331°.
15300 <i>E 4141.9</i>	-Spalathronisi.	37° 42.2' N 23° 14.2' E	Fl.W. period 8s fl. 0.4s, ec. 7.6s	98 30	6	White metal column.	
15304 <i>E 4142</i>	-Ormos Sofikou.	37° 46.5' N 23° 07.8' E	Fl.W. period 4s fl. 0.2s, ec. 3.8s	36 11	5	Metal framework tower on pedestal.	
15308 <i>E 4143</i>	-Nisis Euraios, NE. point.	37° 51.6' N 23° 08.6' E	Fl.W. period 10s fl. 0.5s, ec. 9.5s	157 48	7	White metal column.	
-Dhiorix Korinthou Entrance:							
15312 <i>E 4160</i>	--Kalamaki, mole, W. side.	37° 55.0' N 23° 01.0' E	Iso.R. period 2s	33 10	10	White mast, red band.	
15316 <i>E 4160.4</i>	--Breakwater, N side, NE. head.	37° 54.9' N 23° 00.7' E	Iso.G. period 2s	33 10	10	White metal framework tower, green band.	
15320 <i>E 4162</i>	-Akra Sousaki.	37° 55.0' N 23° 03.0' E	Fl.G. period 10s fl. 0.2s, ec. 9.8s	33 10	12	Round stone tower, dwelling.	Visibility may be reduced by bright shore lights.
15324 <i>E 4168</i>	-Akra Kokhi.	37° 52.5' N 23° 27.0' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	108 33	9	Round masonry tower, dwelling; 39.	
15328 <i>E 4167</i>	-Nisidhes Kanakia.	37° 54.0' N 23° 23.0' E	Fl.W. period 6s fl. 0.3s, ec. 5.7s	66 20	5	Metal framework tower on pedestal.	Visible 288°-254°.
15336 <i>E 4164</i>	-Akra Karas.	37° 57.4' N 23° 25.0' E	Fl.W. period 4s fl. 0.4s, ec. 3.6s	26 8	8	Metal framework on white round hut; 18.	
15340 <i>E 4164.4</i>	-Nisis Revithousa.	37° 57.6' N 23° 24.4' E	Fl.W. period 1.5s fl. 0.2s, ec. 1.3s	33 10	6	Column on white hexagonal hut; 23.	
15344 <i>E 4163.3</i>	-Nisis Pakhi, E. head.	37° 57.9' N 23° 22.1' E	Fl.W.R. period 3s fl. 0.4s, ec. 2.6s	43 13	W. R. 5 3	Column and gallery on white hexagonal hut; 25.	W. 145°-030°, R.-054°, W.-078°, obsc.-145°.
15346 <i>E 4163</i>	-Ormos Pakhi.	37° 58.4' N 23° 21.7' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	16 5	3	Metal framework; 10.	
15347 <i>E 4163.2</i>	-E. mole, head.	37° 58.4' N 23° 21.7' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework structure with gallery and column, green band.	
15348 <i>E 4163.5</i>	-Drmos Paches, W. pier, head.	37° 58.0' N 23° 23.0' E	2 F.R. (vert.)	39 12	3	White metal column.	
15352 <i>E 4163.6</i>	--E. pier, head.	37° 58.0' N 23° 23.0' E	2 F.R. (vert.)	39 12	3	White metal column.	
15356 <i>E 4165</i>	-Makronisos, W. head.	37° 58.0' N 23° 24.6' E	Fl.G. period 3s fl. 0.4s, ec. 2.6s	46 14	3	Column on pedestal, green band; 23.	Visible 319°-203°.
15370 <i>E 4169.5</i>	-Selinia, pier, head.	37° 56.0' N 23° 32.2' E	2 F.G. (vert.)	23 7	3	White metal column.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GREECE							
15372 <i>E 4169</i>	-Nisis Atalandi.	37° 56.0' N 23° 34.0' E	Fl.W.R. period 1.5s fl. 0.2s, ec. 1.3s	29 9	W. R.	4 2	Metal framework on round hut. W. 095°-065°, R.-095°.
15376 <i>E 4170</i>	-Nisis Psittalia.	37° 57.0' N 23° 36.0' E	Fl.(2)W. period 15s fl. 0.3s, ec. 3.4s fl. 0.3s, ec. 11s	154 47		25	Gray round masonry tower on dwelling; 46.
15380 <i>E 4170.2</i>	--SW. head.	37° 56.3' N 23° 34.9' E	Fl.G. period 1.5s fl. 0.2s, ec. 1.3s	44 13		3	Metal framework tower, green band, on hut. Visible 283°-209°.
15384 <i>E 4171.5</i>	-Akra Keos, mole, head.	37° 57.0' N 23° 36.0' E	Fl.(2)G. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	46 14		9	White round tower with green band.
15388 <i>E 4170.4</i>	-Akra Kinosoura.	37° 56.9' N 23° 34.8' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	44 13		4	White metal framework tower, red bands, on hut.
15390 <i>E 4170.5</i>	-Kinosoura Shipyard, jetty, head.	37° 57.0' N 23° 33.3' E	F.R.	16 5		2	White metal column, red band.
15392 <i>E 4170.6</i>	-Ormos Ambelakia, Khandris, pier.	37° 57.1' N 23° 33.0' E	2 F.G. (vert.)	26 8		3	White column. 1 meter apart.
15402 <i>E 4170.82</i>	--SE. jetty.	37° 57.7' N 23° 32.6' E	2 F.G. (vert.)	29 9		3	White metal column. 1 meter apart. 3 F.G. (vert.) shown on W. pier 500 meters W.
-Kolpos Elefsinos:							
15404 <i>E 4174.86</i>	--Titan Pier, head.	38° 02.0' N 23° 32.0' E	2 F.R. (vert.)	33 10		2	Metal column. 1 meter apart. F.R. 3M and F.G. 3M mark mole heads of fishing harbor 0.5 mile ENE.
15408 <i>E 4175.7</i>	--Tourkolimano, pier, head.	38° 02.0' N 23° 31.0' E	Iso.R. period 2s	36 11		9	Hexagonal concrete column, white and red bands.
15412 <i>E 4175.54</i>	--Cement factory pier, NW. corner.	38° 03.0' N 23° 32.0' E	3 F.R.	30 9		3	White metal column.
15420 <i>E 4175</i>	--E. breakwater, head.	38° 02.1' N 23° 32.2' E	Fl.(2)G. period 12s fl. 0.3s, ec. 1.4s fl. 0.3s, ec. 10s	19 6		3	Metal framework tower on pedestal.
15424 <i>E 4175.52</i>	---Main pier.	38° 02.4' N 23° 31.9' E	2 F.R. (vert.)	7 2		2	Post.
15428 <i>E 4175.5</i>	--Naval pier, head.	38° 02.2' N 23° 32.0' E	3 F.R. (vert.)	39 12		2	Metal column. 1 meter apart.
15432 <i>E 4174.84</i>	--Kalimpaki, pier, head.	38° 02.0' N 23° 34.0' E	2 F.R. (vert.)	16 5		3	Metal framework, gallery and column. 1 meter apart.
15436 <i>E 4174.83</i>	--Airport, pier head, about 460 meters NW. of Texaco pier.	38° 02.0' N 23° 35.0' E	F.R.			3	
15440 <i>E 4174.82</i>	--Sidenor, pier, head.	38° 02.0' N 23° 35.0' E	3 F.G. (vert.)	30 9		3	White metal column. 1 meter apart.
15444 <i>E 4174.8</i>	--Texaco, pier, head.	38° 02.0' N 23° 36.0' E	2 F.G. (vert.)	33 10		6	White metal mast. Private.
15448 <i>E 4174.78</i>	--Koumondoros, pier, head.	38° 01.0' N 23° 36.0' E	3 F.G. (horiz.)	26 8		3	White metal mast. Private.
15449 <i>E 4174.79</i>	--Pier, head.	38° 01.0' N 23° 36.0' E	2 F.G. (horiz.)	26 8		3	Metal mast. Private.
15450 <i>E 4174.73</i>	--Mobil oil pier, head.	38° 01.0' N 23° 36.0' E	3 F.G. (vert.)	39 12		5	White metal column. 1 meter apart. Private.
15450.1 <i>E 4174.74</i>	---110 meters from pier, head.	38° 01.0' N 23° 36.0' E	F.R.	85 26		3	Metal column. Private.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GREECE							
15452 <i>E 4174.77</i>	--Shipyard, jetty, head.	38° 00.2' N 23° 35.4' E	2 F.G. (vert.)	20 6	3	White metal column, green band; 11.	1 meter apart.
15456 <i>E 4174.7</i>	--Ormos Palaska, mole, head.	37° 59.9' N 23° 34.9' E	Q.G.	20 6	4	White round hut, metal column, green band; 13.	
15460 <i>E 4174.6</i>	--Megali Kira.	38° 00.0' N 23° 34.0' E	Fl.W. period 2.5s fl. 0.3s, ec. 2.2s	23 7	5	Metal framework tower on round hut.	
15462 <i>E 4176.3</i>	--Nea Peramos.	38° 00.0' N 23° 25.2' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	23 7	3	Metal framework with gallery and column with green band.	
15464 <i>E 4176</i>	--Nisos Salamis, NE. point.	38° 00.0' N 23° 29.0' E	Fl.W.R. period 3s fl. 0.3s, ec. 2.7s	26 8	W. R. 4 2	Metal framework tower on round hut.	W. 072°-093°, R.-164°, W.-277°, obscured elsewhere.
15468 <i>E 4174.4</i>	--Akra Amfiali (Ormos Skaramanga), W. breakwater.	38° 00.0' N 23° 34.0' E	Q.R.	26 8	3	Metal framework, on square hut.	
15472 <i>E 4174.2</i>	--Nisis Arpidhoni, W. extremity.	37° 59.3' N 23° 33.5' E	Fl.W. period 1.5s fl. 0.1s, ec. 1.4s	21 6	5	Metal framework tower round hut.	
15476 <i>E 4174</i>	--Akra Filatouri.	37° 59.0' N 23° 33.0' E	Fl.(2)W. period 14s fl. 0.5s, ec. 1.2s fl. 0.5s, ec. 11.8s	44 13	5	Metal square hut and column on dwelling.	Visible 352°-233°.
-Perama:							
15480 <i>E 4173</i>	--Limeniskos Neon, breakwater, head.	37° 58.4' N 23° 33.3' E	F.R.	20 6	2	White metal column, red band.	
15488 <i>E 4172.8</i>	--Limeniskos Alieon.	37° 57.9' N 23° 33.3' E	3 F.G. (vert.)	23 7	3	White metal mast.	1 meter apart.
15492 <i>E 4172.65</i>	--Provilis II, pier, head.	37° 57.6' N 23° 33.8' E	3 F.G. (vert.)	33 10 30 9 26 8	3	White metal mast.	Private.
15496 <i>E 4172.6</i>	--W. pier, head.	37° 57.7' N 23° 34.5' E	2 F.R. (vert.)	20 6	3	White metal column, red band.	
15498 <i>E 4172.5</i>	--Provilta Petroleum, pier, head.	37° 57.4' N 23° 35.1' E	2 F.G. (vert.)	33 10	3	White metal mast.	1 meter apart.
-Limin Irakleous:							
15510 <i>E 4172.2</i>	--Pipeline.	37° 57.3' N 23° 36.5' E	F.Y.				
-Limin Dhrapetsona:							
15512 <i>E 4177</i>	--Ormos Foron, T-jetty, N. head.	37° 56.8' N 23° 36.8' E	2 F.G. (vert.)	30 9	3	White metal column, green band.	1 meter apart.
15516 <i>E 4177.2</i>	---S. head.	37° 56.7' N 23° 36.8' E	2 F.G. (vert.)	30 9	3	White metal column, green band.	1 meter apart.
15520 <i>E 4177.4</i>	--Loading pier, head.	37° 56.7' N 23° 36.9' E	F.G.	30 9	3	White metal mast, green band.	
-Piraeus:							
15524 <i>E 4178</i>	--Molos Themistokleus, head.	37° 56.2' N 23° 37.3' E	L.Fl.G. period 6s fl. 2s, ec. 4s	43 13	9	Round concrete tower, green band; 32.	Signal station.
15528 <i>E 4180</i>	--Molos Vasileus Yeoryios, head.	37° 56.3' N 23° 37.3' E	L.Fl.R. period 6s fl. 2s, ec. 4s	46 14	9	Round concrete tower, red band; 32.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GREECE							
15536 <i>E 4182</i>	--Limin Zeas, S. breakwater, head.	37° 56.0' N 23° 39.2' E	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	33 10	7	Concrete column on pedestal, red band.	
15540 <i>E 4182.4</i>	---N. breakwater, head.	37° 56.0' N 23° 39.0' E	Fl.(2)G. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	28 9	4	Metal framework tower on pedestal, green band.	
-Ormos Falirou:							
15544 <i>E 4186</i>	--Limin Mounikhias, N. breakwater, head.	37° 56.3' N 23° 39.7' E	Iso.G. period 2s	33 10	6	White metal framework tower on pedestal, green band.	Visible 205°-145°.
15548 <i>E 4186.2</i>	---S. breakwater, head.	37° 56.2' N 23° 39.7' E	Iso.R. period 2s	33 10	8	White metal framework tower on pedestal, red band.	Visible 109°-049°.
15550 <i>E 4187.4</i>	---SE. jetty, head.	37° 56.3' N 23° 39.7' E	Q.R.	10 3	2	White round hut on pedestal, red band.	
15560 <i>E 4188.2</i>	--Submerged breakwater.	37° 56.1' N 23° 41.1' E	Q.G.	13 4	4	Concrete hexagonal hut on pedestal, green band.	
15568 <i>E 4189.55</i>	-Flisvos, N. mole, head.	37° 56.0' N 23° 40.9' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	39 12	7	White hexagonal hut, column, gallery, red band.	
15572 <i>E 4189.6</i>	-Limin Alimos Marina, SW. breakwater, head.	37° 54.7' N 23° 42.1' E	Fl.G. period 3s fl. 1s, ec. 2s	29 9	9	White hexagonal hut, column and gallery, green band.	
15576 <i>E 4189.8</i>	--NE. breakwater, head.	37° 54.7' N 23° 42.1' E	Fl.R. period 3s	29 9	9	White hexagonal hut, column and gallery, red band.	
15578 <i>E 4190</i>	-Akra Kosma.	37° 53.6' N 23° 42.6' E	Q.(9)W. period 15s	30 9	5	W. CARDINAL YBY, beacon, topmark.	
15580 <i>E 4191</i>	-Ellinikon, N., AVIATION LIGHT.	37° 53.0' N 23° 44.0' E	Al.W.G. period 6s	49 15	15	Airport control tower.	
15584 <i>E 4192</i>	-Vrakhio Mermingia.	37° 50.0' N 23° 44.0' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	23 7	4	White round hut with metal framework.	
15588 <i>E 4194</i>	-Ormos Vouliagmenis, on islet.	37° 48.0' N 23° 47.0' E	Fl.(3)R. period 12s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 7s	31 9	7	White hexagonal hut with column and gallery, red band.	
15592 <i>E 4193</i>	Nisis Fleves, summit.	37° 46.0' N 23° 46.0' E	Fl.(3)W. period 10s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 5.7s	134 41	8	White iron tower.	Visible 285°-161°.
15596 <i>E 4198</i>	-Ormos Anavissou.	37° 43.0' N 23° 56.0' E	Q.W.R.	25 8	W. 3 R. 2	White round hut.	W. 219°-036°, R.-047°.
15600 <i>E 4200</i>	-Akra Katafiyi.	37° 40.3' N 23° 56.3' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	56 17	4	Metal column on white hut.	
15604 <i>E 4202</i>	-Nisis Patroklou Gaidouronisis, N. side.	37° 39.4' N 23° 57.5' E	L.Fl.W. period 10s fl. 2s, ec. 8s	23 7	6	Metal column on white hut.	
DHIAVLOS MAKRONISOU:							
15608 <i>E 4204</i>	-Makronisos, Akra Angalistros.	37° 39.0' N 24° 07.0' E	Fl.(2)W. period 14s fl. 1s, ec. 2s fl. 1s, ec. 10s	105 32	12	Round hut; 13.	Visible 207°-168°.
15612 <i>E 4208</i>	-Akra Fonias, channel, W. side.	37° 41.0' N 24° 04.0' E	Fl.W. period 2.4s fl. 0.3s, ec. 2.1s	43 13	6	White round metal framework structure.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GREECE							
15616 <i>E 4209</i>	-Akra Ergastiria.	37° 43.0' N 24° 04.0' E	Fl.W. period 1.5s fl. 0.2s, ec. 1.3s	23 7	4	Metal framework tower on hut.	Visible 148°-081°.
15616.1 <i>E 4209.1</i>	-Lavrio, N. mole, head.	37° 42.5' N 24° 04.1' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	26 8	5	STARBOARD (A) G, beacon.	
15620 <i>E 4210</i>	-Akra Vrisaki.	37° 45.0' N 24° 05.0' E	Fl.W. period 5s fl. 0.1s, ec. 4.9s	75 23	16	Masonry tower on dwelling; 24.	Visible 186°-006°.

Section 11

Kikladhes Islands, Crete and East Coast of Greece

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GREECE-KIKLADHES							
NISOS KEA:							
15624 E 4218	-Akra Tamelos.	37° 31.0' N 24° 17.0' E	Fl.(2)W. period 15s fl. 0.1s, ec. 4.9s fl. 0.1s, ec. 9.9s	197 60	17	Round tower, dwelling.	
15628 E 4212	-Ormos Ayiou Nikolaou.	37° 40.1' N 24° 18.5' E	Fl.(2)W. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	105 32	15	Square tower on octagonal dwelling.	
15632 E 4214	--Akra Ayiou Savva, entrance, S. side.	37° 39.8' N 24° 18.8' E	Fl.W. period 1.5s fl. 0.3s, ec. 1.2s	69 21	5	White round hut with metal framework.	
15636 E 4215	--Ormos Livadhi, pier, head.	37° 39.8' N 24° 18.7' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework, gallery and column; 22.	
NISOS KITHNOS:							
15640 E 4223	-Akra Ayios Dhimitris.	37° 17.8' N 24° 21.4' E	Fl.W. period 10s fl. 1.5s, ec. 8.5s	75 23	12	Iron framework tower on base, red band.	Visible 281°-160°.
15642 E 4225	-Ormos Merikha.	37° 23.2' N 24° 23.5' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework with gallery and metal column.	
15644 E 4224	-Ormos Merikhas.	37° 23.6' N 24° 23.1' E	Fl.W.R. period 5s fl. 0.5s, ec. 4.5s	75 23	W. R. 5 3	Metal framework tower on hut.	W. 315°-340°, R.-030°, W.-173°.
15648 E 4220	-Akra Kefalos.	37° 28.7' N 24° 26.0' E	Fl.W. period 4s fl. 0.2s, ec. 3.8s	177 54	9	Metal framework tower on hut.	Visible 065°-341°.
15652 E 4222	-Ormos Loutron.	37° 26.3' N 24° 25.7' E	Fl.W. period 1.5s fl. 0.3s, ec. 1.2s	46 14	5	White round hut with column.	
15653 E 4222.5	--Breakwater, head.	37° 26.6' N 24° 25.7' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	20 6	3	Metal framework, gallery and column.	
NISOS ANDROS:							
15656 E 4332	-Akra Kastri.	37° 52.0' N 24° 43.0' E	Fl.W. period 6s	223 68	8	Metal framework on hut.	
15659 E 4332.3	--Mole, head.	37° 53.0' N 24° 44.0' E	Q.G.	23 7	3	White metal framework tower, green band.	
15660 E 4332.5	-Ormos Gavriou, Akra Marmara.	37° 52.0' N 24° 44.0' E	Fl.R.G. period 2s fl. 0.2s, ec. 1.8s	50 15	3	Hut with concrete column.	R. 248°-005°, G.-178°, obscured elsewhere.
15664 E 4333	-Akra Kolona.	37° 51.0' N 24° 46.0' E	Fl.W. period 3s fl. 0.2s, ec. 2.8s	69 21	5	Iron framework structure.	Visible 237°-156°.
15668 E 4333.3	-Batsi, mole, head.	37° 51.0' N 24° 47.0' E	Fl.G. period 2s fl. 0.2s, ec. 1.8s	20 6	3	Metal framework, gallery and column.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GREECE-KIKLADHES							
15672 <i>E 4330</i>	-Akra Fassa.	37° 58.0' N 24° 42.0' E	Fl.W. period 10s fl. 0.2s, ec. 9.8s	659 201	25	Round tower on dwelling; 70.	Visible 003°-235°.
15676 <i>E 4338</i>	-Akra Gria.	37° 53.7' N 24° 57.0' E	Fl.W. period 10s fl. 0.5s, ec. 9.5s	282 86	25	Round masonry tower, dwelling; 33.	
15680 <i>E 4334</i>	-Ormos Kastrou, Nisis Tourlitis, entrance to port.	37° 50.5' N 24° 56.7' E	Fl.(2)W. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 12s	62 19	6	Round stone tower; 23.	Visible 063°-312°.
15684 <i>E 4336</i>	--Mole, head.	37° 50.0' N 24° 56.0' E	Fl.G. period 1.5s fl. 0.2s, ec. 1.3s	30 9	3	Iron beacon, hut.	
15688 <i>E 4337.5</i>	-Akra Ayiou Kosma.	37° 46.0' N 25° 00.0' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	223 68	7	Round iron beacon.	Visible 136°-013°.
	-Ormos Korthiou:						
15692 <i>E 4336.5</i>	--Ayias Aikaterinis.	37° 46.0' N 24° 58.0' E	Fl.W. period 1.5s fl. 0.2s, ec. 1.3s	46 14	4	Iron structure; 8.	Visible 222°-100°.
15700 <i>E 4342</i>	Vrakhoi Kaloyerai.	38° 09.3' N 25° 17.5' E	Fl.(2)W. period 15s fl. 0.1s, ec. 4.9s fl. 0.1s, ec. 9.9s	124 38	17	Truncated metal pyramid, balcony; 10.	
NISOS SIROS:							
15704 <i>E 4312</i>	-Akra Trimeson.	37° 31.0' N 24° 53.0' E	Fl.(2)W. period 14s fl. 0.6s, ec. 1.4s fl. 0.6s, ec. 11.4s	203 62	12	White metal tower, masonry base; 11.	Visible 064°-289°.
15708 <i>E 4308</i>	-Nisis Dhidhimi, W. summit.	37° 26.0' N 24° 58.0' E	Fl.W. period 6s fl. 1s, ec. 5s	223 68	12	Round masonry tower; 96.	
15712 <i>E 4306</i>	-Nisis Aspro.	37° 23.6' N 24° 59.7' E	Fl.(2)W. period 12s fl. 0.5s, ec. 9.8s	171 52	7	Iron tower with column.	
15716 <i>E 4316</i>	-Akra Vinglostasi.	37° 22.0' N 24° 53.0' E	Fl.(3)W. period 12s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 5s	246 75	6	Iron round tower, framework column; 16.	Visible 251°-151°.
15720 <i>E 4314</i>	-Dhimitra, Foinikes Bay.	37° 23.6' N 24° 52.4' E	Fl.R. period 1.5s fl. 0.2s, ec. 1.3s	23 7	4	Metal framework; 13.	Visible 198°-085°.
15721 <i>E 4315</i>	-Finikas Bay, S. mole, head.	37° 23.0' N 24° 53.0' E	F.G.	20 6	3	White metal column, green band.	
15722 <i>E 4313</i>	-Psathonisi.	37° 23.2' N 24° 51.6' E	Fl.W. period 2s fl. 0.3s, ec. 1.7s	23 7	5	Round hut with metal framework.	
15723 <i>E 4312.5</i>	-Kinion Bay, mole, head.	37° 26.8' N 24° 53.8' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework, gallery and metal column.	
15724 <i>E 4310</i>	-Akra Kondoyiannis.	37° 26.0' N 24° 57.0' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	59 18	5	White hut, two pillars; 21.	
15728 <i>E 4311</i>	-Limin Ermoupolis, N. breakwater, head.	37° 26.2' N 24° 56.8' E	Fl.G. period 3s	33 10	6	White column with gallery on hexagonal pedestal, green band.	
15732 <i>E 4311.2</i>	--S. breakwater, head.	37° 26.0' N 24° 56.0' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7	6	White hexagonal hut, column and gallery, red band.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GREECE-KIKLADHES							
15733 <i>E 4311.7</i>	--Oil supply platform.	37° 26.0' N 24° 55.0' E	F.Y.	39 12	3	Metal column; 32.	
NISOS TINOS:							
15736 <i>E 4318</i>	-Nisis Dhisvato.	37° 40.0' N 24° 58.0' E	Fl.W. period 10s fl. 0.3s, ec. 9.7s	108 33	16	Square masonry tower; 30.	
15738 <i>E 4320</i>	-Nisis Planitis.	37° 39.0' N 25° 04.0' E	Fl.(2)W. period 14s fl. 0.6s, ec. 1.4s fl. 0.6s, ec. 11.4s	262 80	10	White metal framework tower on square hut.	
15744 <i>E 4322</i>	-Akra Livadha.	37° 37.0' N 25° 15.0' E	Fl.W. period 15s fl. 1.5s, ec. 13.5s	135 41	7	Square tower, dwelling.	Reserve light F.W.
15748 <i>E 4324</i>	-Limin Tinou, S. breakwater, head.	37° 32.0' N 25° 10.0' E	Fl.G. period 2s fl. 0.2s, ec. 1.8s	26 8	3	Column on hexagonal pedestal, green band.	
15752 <i>E 4326</i>	--N. jetty, head.	37° 32.2' N 25° 09.6' E	Fl.R. period 2s fl. 0.2s, ec. 1.8s	23 7	3	Column on hexagonal pedestal, red band.	
15756 <i>E 4327</i>	--N. mole, head.	37° 32.0' N 25° 09.0' E	Fl.R. period 3s fl. 1s, ec. 2s	33 10	7	White hexagonal hut, column and gallery, red band; 28.	
NISOS SERIFOS:							
15760 <i>E 4230</i>	-Akra Kiklops.	37° 07.0' N 24° 25.0' E	Fl.(2)W. period 14s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 12.2s	220 67	9	Round hut.	
15764 <i>E 4228</i>	-Akra Spathi.	37° 06.0' N 24° 30.0' E	Fl.(3)W. period 30s fl. 0.3s, ec. 4.7s fl. 0.3s, ec. 4.7s fl. 0.3s, ec. 19.7s	219 67	19	Square tower, dwelling; 32.	
15768 <i>E 4232</i>	-Akra Pounda, mole, head.	37° 08.5' N 24° 31.1' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	23 7	3	Metal framework; 13.	
15769 <i>E 4233</i>	-Livadhion, pier, head.	37° 08.6' N 24° 30.9' E	2 F.R. (vert.)	20 6	3	White metal column, red band; 16.	1 meter apart.
NISOS SIFNOS:							
15772 <i>E 4234</i>	-Akra Fillippos, on rock.	37° 02.6' N 24° 38.1' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	128 39	9	Round hut.	Visible 027°-277°.
15776 <i>E 4234.5</i>	-Akra Kokkala.	36° 59.9' N 24° 39.0' E	Fl.(3)W. period 12s fl. 0.4s, ec. 1s fl. 0.4s, ec. 1s fl. 0.4s, ec. 8.8s	171 52	9	Lattice mast on square hut.	Visible 292°-207°.
15780 <i>E 4235</i>	-Ormos Kamarai.	36° 59.4' N 24° 39.9' E	Fl.W. period 3s fl. 0.4s, ec. 2.6s	167 51	7	Metal framework tower on pedestal, green band.	
15784 <i>E 4235.4</i>	--Limin Kameron.	36° 59.4' N 24° 39.9' E	Fl.G. period 1.5s fl. 0.2s, ec. 1.3s	26 8	3	White metal framework tower, green band.	
15788 <i>E 4236.4</i>	-Akra Maistros.	36° 55.4' N 24° 40.8' E	Fl.W. period 2s fl. 0.3s, ec. 1.7s	108 33	7	Metal framework tower.	Visible 332°-253°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GREECE-KIKLADHES							
15792 <i>E 4237</i>	-Akra Stavros.	36° 56.4' N 24° 45.2' E	Fl.W. period 1.5s fl. 0.3s, ec. 1.2s	85 26	5	Hut, concrete column; 20.	Visible 256°-147°.
15796 <i>E 4304</i>	Nisis Nata, W. summit, SE. of Nisos Siros.	37° 22.0' N 25° 04.0' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	56 17	6	Metal framework tower on hut.	
NISOS MIKONOS:							
15800 <i>E 4303</i>	-Nisidhes Prassonisia.	37° 24.0' N 25° 18.0' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	82 25	6	Round iron tower on hut.	Visible 278°-271°.
15804 <i>E 4302</i>	-Akra Armenistis.	37° 29.3' N 25° 18.7' E	Fl.W. period 10s fl. 1s, ec. 9s	604 184	22	Octagonal tower on dwelling; 62.	Visible 022°-241°.
15805 <i>E 4300.31</i>	-Tourlos, NW. quay, head.	37° 27.8' N 25° 19.1' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal column with gallery on metal framework, green band.	
15805.2 <i>E 4300.32</i>	--SE. quay, head.	37° 27.6' N 25° 19.4' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal column with gallery on metal framework, red band.	
15806 <i>E 4300.2</i>	-Limeras Mikonos, N. mole, head.	37° 27.1' N 25° 19.6' E	Fl.R. period 3s fl. 0.2s, ec. 2.8s	30 9	3	White hexagonal hut with column and gallery, red band.	
15808 <i>E 4300</i>	-Limin Mikonou, S. breakwater, head.	37° 26.9' N 25° 19.5' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	30 9	3	White hexagonal hut with column, green band; 25.	
15812 <i>E 4299</i>	-Nisis Khatapodhia.	37° 24.6' N 25° 33.9' E	Fl.(2)W. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	427 130	10	White pyramid, gallery; 14.	
NISOS PAROS:							
15816 <i>E 4284</i>	-Nisidhes Portes, islet, NE. head.	37° 06.0' N 25° 06.0' E	Fl.(2)W. period 16s fl. 0.4s, ec. 1.1s fl. 0.4s, ec. 14.1s	72 22	7	White metal framework; 16.	
15820 <i>E 4289</i>	-Salange Islet.	37° 02.9' N 25° 05.3' E	Fl.W.R. period 4s fl. 0.3s, ec. 3.7s	37 11	W. R. 5 3	Metal framework tower on white square hut.	R. 341°-016°, W.-135°, R.-161°, W.-341°.
15821 <i>E 4289.4</i>	Andiparos, pier, head.	37° 02.0' N 25° 05.0' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	23 7	3	White metal framework tower, red band.	
15824 <i>E 4286</i>	-Agios Fokas.	37° 05.3' N 25° 07.8' E	Fl.W. period 4s fl. 0.6s, ec. 3.4s	46 14	7	Metal framework tower on white round hut; 26.	Visible 226°-157°.
15826 <i>E 4288</i>	-Paroika Reef.	37° 05.0' N 25° 08.4' E	Fl.(2)W. period 10s	23 7	6	ISOLATED DANGER BRB, tower, topmark.	
15832 <i>E 4298</i>	-Nisis Mirmingas.	37° 12.0' N 25° 04.0' E	Fl.W. period 5s fl. 0.6s, ec. 4.4s	56 17	8	White square hut with two columns.	
15836 <i>E 4290</i>	-Akra Korakas, W. side of entrance to Ormos Naousis.	37° 09.1' N 25° 13.1' E	L.Fl.W. period 12s fl. 2s, ec. 10s	197 60	14	Square tower on dwelling; 33.	Visible 059°-311°.
15840 <i>E 4291</i>	-Naoussa harbor, N. breakwater, head.	37° 08.0' N 25° 14.0' E	Fl.R. period 1.5s fl. 0.3s, ec. 1.2s	36 11	3	Metal framework tower, red band and gallery.	
15841 <i>E 4291.2</i>	--S. breakwater, head.	37° 08.0' N 25° 14.0' E	Fl.G. period 1.5s fl. 0.2s, ec. 1.3s	23 7	3	White metal framework.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GREECE-KIKLADHES							
15844 E 4293	-Vrakhos Amaridhes, off E. coast.	37° 03.0' N 25° 19.1' E	Fl.W.R. period 4s fl. 0.4s, ec. 3.6s	34 10	W. R.	5 3 Concrete column on hexagonal pedestal.	W. 015°-185°, R.-015°.
15848 E 4292	-Akra Kratzi, Ormos Marmara, entrance, S. side.	37° 03.0' N 25° 17.0' E	Fl.(3)W.G. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	76 23	W. G.	12 10 Round hut.	G. 250°-260°, W.-250°.
15852 E 4282	Nisis Strongilo, SW. of Nisos Paros.	36° 56.0' N 24° 57.0' E	Fl.(2)W. period 14s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 11.5s	164 50		5 Iron column with mast, masonry base; 19.	Visible 300°-182°.
15856 E 4283	Nisis Dhespotiko, Akra Koutsouras.	36° 58.9' N 25° 01.5' E	Fl.W. period 4s fl. 0.4s, ec. 3.6s	128 39	5	White round hut with metal framework.	Visible 122°-042°.
15860 E 4294	Nisos Irakleia, Ormos Ayios Georgios.	36° 52.3' N 25° 28.5' E	Fl.W. period 1.5s fl. 0.3s, ec. 1.2s	69 21	5	Metal framework on white square hut; 19.	
15864 E 4294.1	Nisos Skhoinousa, Ormiskos Mersinia.	36° 51.3' N 25° 30.5' E	Fl.W. period 4s fl. 0.4s, ec. 3.6s	33 10	6	Metal framework tower on pedestal.	
15868 E 4294.2	Koufonisia.	36° 55.9' N 25° 35.4' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	30 9	3	Round metal tower, framework column; 16.	Visible 270°-133°.
15872 E 4294.5	Kopria.	36° 59.1' N 25° 38.2' E	Fl.(2)W. period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 9.5s	246 75	10	Metal tower.	
NISOS NAXOS:							
15876 E 4295	-Akra Stavros.	37° 12.3' N 25° 32.2' E	Fl.(2)W. period 16s fl. 1s, ec. 2s fl. 1s, ec. 12s	164 50	13	Iron pyramid; 10.	Visible 093°-308°.
15880 E 4293.6	-Ormos Naxou, N. breakwater, head.	37° 06.4' N 25° 21.9' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	23 7	7	White round hut, column; 17.	
15884 E 4295.5	Akra Kaloterousa.	37° 08.0' N 25° 50.0' E	Fl.(3)W. period 15s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 11.7s	482 147	10	Round hut.	Visible 084°-323°.
NISOS MILOS:							
15888 E 4246	-Nisis Paximadhi, N. Milos, off SW. point	36° 37.8' N 24° 19.0' E	Fl.(2)W. period 15s fl. 1s, ec. 2s fl. 1s, ec. 11s	95 29	12	Round hut.	Visible 273°-183°.
15892 E 4248	-Nisidhes Ananes.	36° 33.0' N 24° 08.7' E	Fl.(3)W. period 12s fl. 0.3s, ec. 1.3s fl. 0.3s, ec. 1.3s fl. 0.3s, ec. 8.5s	279 85	9	Metal hut.	
15896 E 4244	-Nisos Andimilos, Akra Kokhlidi.	36° 47.0' N 24° 13.0' E	Fl.W. period 2s fl. 0.3s, ec. 1.7s	197 60	8	Metal framework tower on pedestal.	Visible 312°-170°.
15900 E 4240	-Nisidhes Akradhia, NW. point of W. islet.	36° 47.0' N 24° 23.0' E	Fl.W. period 10s fl. 1s, ec. 9s	289 88	10	Square tower, dwelling; 23.	
15904 E 4242	-Ormos Milou, Akra Bombardha.	36° 43.3' N 24° 26.0' E	Fl.W. period 5s fl. 1s, ec. 4s	118 36	12	Round hut.	Visible 234°-128°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GREECE-KIKLADHES							
15912 E 4239	-Akra Pelekoudha.	36° 46.1' N 24° 31.7' E	Fl.W. period 2s fl. 0.3s, ec. 1.7s	56 17	5	Metal column on white round hut; 16.	
15916 E 4249	-Voudhia, jetty, head.	36° 45.0' N 24° 32.0' E	F.R.	52 16	3		
15920 E 4252	-Nisis Poliaigos.	36° 46.0' N 24° 39.0' E	Fl.W. period 5s fl. 0.2s, ec. 4.8s	453 138	19	Round tower, dwelling; 29.	
15924 E 4250	-Nisis Ayios Evstathios, N. head.	36° 46.6' N 24° 35.0' E	Fl.(3)W. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	85 26	6	Metal framework, gallery; 13.	Visible 033°-000°.
15928 E 4238	-Ormos Semina.	36° 48.3' N 24° 35.6' E	Fl.G. period 5s fl. 1s, ec. 4s	36 11	5	White square framework with green band; 13.	
15932 E 4256	Nisos Folegandros.	36° 38.1' N 24° 51.7' E	Fl.(3)W. period 30s fl. 0.1s, ec. 4.9s fl. 0.1s, ec. 4.9s fl. 0.1s, ec. 19.9s	229 70	17	White round tower and dwelling; 36.	Visible 306°-138°.
15936 E 4258	-Ormos Karavostasi, N. entrance point.	36° 37.0' N 24° 57.0' E	Fl.W.R. period 1.5s fl. 0.2s, ec. 1.3s	49 15	W. R. 5 3	White metal column, red band.	R. 202°-248°, W.-322°, R.-344°, W.-096°.
15937 E 4259	-Mole, head.	36° 37.0' N 24° 57.0' E	Q.G.	26 8	3	Metal framework on white hexagonal hut, green band; 21.	
15940 E 4260	Nisos Sikinos, Ormos Skala, E. entrance point.	36° 40.4' N 25° 08.6' E	Fl.W. period 5s fl. 1s, ec. 4s	59 18	8	White round hut with column; 16.	
15941 E 4261	-Skala, mole, head.	36° 40.5' N 25° 08.4' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	26 8	5	Metal framework, gallery and column; 20.	
15944 E 4262	Nisos Ios, Ormos Iou, Akra Fanari.	36° 43.2' N 25° 15.6' E	Fl.W. period 4s fl. 0.4s, ec. 3.6s	108 33	7	Metal framework tower on hut.	
15945 E 4263	-Agia Eirini, breakwater, head.	36° 43.6' N 25° 16.2' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	26 8	3	Metal framework with gallery.	
15948 E 4296	Nisis Mikros Avelos.	36° 49.7' N 25° 23.8' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1.2s fl. 0.5s, ec. 1.2s fl. 0.5s, ec. 6.1s	131 40	7	Round hut.	
15952 E 4266	-Akra Akrotiri.	36° 21.0' N 25° 21.0' E	Fl.W. period 10s fl. 1s, ec. 9s	328 100	24	Square tower and dwelling; 33.	
15954 E 4266.5	-Katsouni, breakwater, head.	36° 23.1' N 25° 25.6' E	Fl.G. period 3s fl. 0.4s, ec. 2.6s	20 6	5	Metal framework, gallery and column, green band.	
15956 E 4267	-Nisis Nea Kaimeni.	36° 23.9' N 25° 24.2' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	23 7	5	Round iron tower, framework column; 16.	
15960 E 4268	-Thira Skala.	36° 25.0' N 25° 26.0' E	Q.R.	23 7	3	Round tower, framework column; 16.	
15964 E 4269	-Nikolaos Point.	36° 27.6' N 25° 22.2' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	26 8	4	White round hut, green band, column; 16.	
15968 E 4270	-Ammoudi Point.	36° 27.9' N 25° 22.1' E	Fl.W. period 4s fl. 0.6s, ec. 3.4s	233 71	7	White round hut, metal framework; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GREECE-KIKLADHES							
15973 <i>E 4275</i>	Nisos Anafi, Akra Nikolaos, mole, head.	36° 20.5' N 25° 46.2' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	30 9	5	Metal column with gallery on metal framework, red band; 16.	
15976 <i>E 4276</i>	Nisidhes Kristiana, Nisis Eskhati.	36° 13.0' N 25° 14.0' E	Fl.(3)W. period 9s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 5.7s	79 24	10	Pyramidal tower.	
15980 <i>E 4295.7</i>	Nisidhes Bouvais, about 37 km. N. of Nisos Amorgos.	37° 14.1' N 25° 55.4' E	Fl.W. period 8s fl. 1s, ec. 7s	184 56	12	Metal framework tower with gallery on hut.	
NISOS AMORGOS:							
15984 <i>E 4278.4</i>	-Akra Langadhia.	36° 55.0' N 25° 58.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	312 95	8	Metal tower; 16.	Visible 289°30'-206°.
15985 <i>E 4278.5</i>	-Aigial, mole, head.	36° 54.2' N 25° 58.5' E	Fl.G. period 3s fl. 0.4s, ec. 2.6s	20 6	5	Metal framework, gallery and column.	
15988 <i>E 4278</i>	-Ormos Katapola, Akra Ayios Ilias.	36° 50.3' N 25° 50.4' E	Fl.(2)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	151 46	12	Metal framework tower, red band.	
15992 <i>E 4277.5</i>	-Nisis Grabousa.	36° 49.0' N 25° 45.0' E	Fl.W. period 1.5s fl. 0.3s, ec. 1.2s	45 14	5	Metal framework tower, red band.	Visible 024°-336°.
15996 <i>E 4277</i>	-Akra Korax.	36° 46.0' N 25° 48.0' E	Fl.W. period 8s fl. 1s, ec. 7s	249 76	11	Metal tower with gallery.	Visible 263°-090°.
16000 <i>E 4279</i>	Nisidhes Liadhi, northernmost islet.	36° 54.4' N 26° 10.3' E	Fl.(2)W. period 20s fl. 1s, ec. 2s fl. 1s, ec. 16s	214 65	9	Truncated iron pyramid; 12.	
16004 <i>E 4280</i>	Nisis Levitha, Akra Spano.	36° 59.9' N 26° 29.8' E	L.Fl.W. period 10s fl. 2s, ec. 8s	88 27	11	White metal framework tower; 13.	Visible 161°-075°.
GREECE-KRITI (CRETE)							
16008 <i>E 4780</i>	Nisis Agria Gramvousa.	35° 38.8' N 23° 34.5' E	Fl.W.R. period 10s fl. 0.3s, ec. 9.7s	354 108	W. 17 R. 13	White metal beacon, red band, masonry base; 10.	W. 330°-239°, R.-255°, W.-319°, obsc.-330°.
16010 <i>E 4780.4</i>	Kavonisi, NE. mole, head.	35° 30.9' N 23° 38.4' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	23 7	3	Metal column with gallery on metal framework, green band; 18.	
16010.5 <i>E 4780.5</i>	-SW. mole, head.	35° 30.9' N 23° 38.1' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	20 6	3	Metal framework with gallery and metal column with red band.	
16012 <i>E 4781</i>	Kolpos Khanion, Limin Khanion, entrance, E. side.	35° 31.2' N 24° 01.0' E	Fl.R. period 2.5s fl. 0.1s, ec. 2.4s	85 26	7	Masonry tower.	F.R. and F.G. mark inner mole heads.
16012.5 <i>E 4780.95</i>	-E. breakwater, head.	35° 31.2' N 24° 00.9' E	Fl.G. period 4s fl. 0.4s, ec. 3.6s	23 7	5	Metal framework with gallery and metal column with green band; 18.	
16024 <i>E 4783</i>	Akra Maleka.	35° 35.0' N 24° 10.0' E	Fl.(2)W. period 12s fl. 1s, ec. 2s fl. 1s, ec. 8s	156 48	10	Metal framework tower on pedestal.	
16032 <i>E 4783.6</i>	Khersonisos Akrotinov.	35° 32.0' N 24° 12.0' E	2 F.R. (horiz.)	558 170			

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GREECE-KRITI (CRETE)							
16036 <i>E 4784</i>	Akra Dhrapanon.	35° 28.0' N 24° 14.0' E	Fl.(3)W. period 30s fl. 0.3s, ec. 4.7s fl. 0.3s, ec. 4.7s fl. 0.3s, ec. 19.7s	184 56	20	Octagonal tower and dwelling; 23.	Visible 066°-324°.
ORMOS SOUDHAS:							
16040 <i>E 4786</i>	-Nisis Soudhas, fortress, S. part.	35° 29.2' N 24° 09.2' E	Fl.G. period 4.8s fl. 0.8s, ec. 4s	66 20	6	White pyramid, green band; 16.	Visible 245°-120°.
16044 <i>E 4787</i>	-Limin Soudha, main pier extension, head.	35° 29.0' N 24° 05.0' E	2 F.R. (vert.)	26 8	4	Mast.	1 meter apart.
16052 <i>E 4787.2</i>	--Flour mill.	35° 29.3' N 24° 04.4' E	F.R.	125 38	2	Metal mast.	
16056 <i>E 4788</i>	-Vlite Pier.	35° 30.3' N 24° 05.4' E	3 F.G. (vert.)	39 12	3	White metal column.	1 meter apart.
16060 <i>E 4788.5</i>	-Jetty head, 0.9 mile W. of Vlite pier.	35° 30.0' N 24° 04.0' E	2 F.G. (vert.)	33 10	3	White metal column.	1 meter apart.
16064 <i>E 4790</i>	Limin Rethimnis, N. mole, head.	35° 22.4' N 24° 29.0' E	Fl.G. period 3s fl. 1s, ec. 2s	33 10	12	Hexagonal hut, column with gallery, green band.	
16068 <i>E 4791.4</i>	Limin Rethimnis, S. mole, head.	35° 22.2' N 24° 29.0' E	Fl.R. period 4s fl. 1s, ec. 3s	39 12	6	White hexagonal hut, column with gallery, red band; 23.	
16072	-Harbor mole, head.	35° 31.1' N 24° 01.1' E	F.G.	7 2	3	Square concrete pillar, green band; 5.	Visible only inside harbor.
16074	Panormos Bay, mole, head.	35° 25.3' N 24° 41.5' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework, gallery and column, green band; 21.	
16075 <i>E 4793</i>	Bali Bay, mole, head.	35° 24.9' N 24° 47.1' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework, gallery and column, green band; 19.	
16076 <i>E 4792</i>	Khondros Kavos.	35° 25.6' N 24° 42.0' E	Fl.W.R. period 6s fl. 1s, ec. 5s	187 57	W. 12 R. 8	White lantern house; 15.	R. shore-097°, W.-270°, obscured elsewhere.
16080 <i>E 4794</i>	Akra Stavros.	35° 26.0' N 24° 59.0' E	Fl.(2)W. period 14s fl. 0.3s, ec. 1.3s fl. 0.3s, ec. 12.1s	67 20	11	Metal framework with gallery; 21.	Visible 067°-258° and 272°- 337°.
16084 <i>E 4796</i>	Titan cement, loading pier, head.	35° 21.0' N 25° 03.0' E	3 F.R. (vert.)	39 12	3	White metal tower.	1 meter apart.
16085 <i>E 4795</i>	Tsimeda, pier, head.	35° 21.0' N 25° 03.0' E	2 F.R. (vert.)	39 12	4	White metal mast.	1 meter apart.
16088 <i>E 4810</i>	Nisis Dia, N. point.	35° 27.9' N 25° 12.9' E	L.Fl.W. period 12s fl. 2s, ec. 10s	102 31	9	White pyramidal tower.	Visible 067°-284°.
16092 <i>E 4812</i>	-Akra Stavros (Apiri).	35° 25.6' N 25° 14.3' E	Fl.W. period 6s fl. 1s, ec. 5s	423 129	12	White round hut; 15.	Visible 180°30'-112°30'.
16096 <i>E 4813</i>	Nisis Avgo.	35° 36.2' N 25° 34.4' E	Fl.W. period 5s fl. 1s, ec. 4s	188 57	9	Iron tower; 16.	Visible 288°-275°.
LIMIN IRAKLIU:							
16100 <i>E 4798</i>	-N. breakwater, head.	35° 21.1' N 25° 09.4' E	L.Fl.G. period 6s fl. 2s, ec. 4s	46 14	9	White hexagonal hut, column and gallery, green band; 38.	F.R. on radio tower 0.85 mile SE.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GREECE-KRITI (CRETE)							
16104 <i>E 4800</i>	-S. breakwater (Pier VI), head.	35° 20.9' N 25° 09.2' E	L.F.I.R. period 6s fl. 2s, ec. 4s	43 13	9	White concrete tower with gallery; 33.	
16120 <i>E 4808</i>	-AVIATION LIGHT.	35° 20.3' N 25° 10.6' E	Al.W.G. period 4s	187 57	15	Control tower.	Aero.
16122	Chersonisos, mole, head.	35° 19.2' N 25° 23.6' E	Fl.G. period 2s fl. 0.5s, ec. 1.5s	33 10	5	Metal hexagonal hut, gallery and column, green band; 28.	
16123 <i>E 4813.7</i>	Milatos, N. mole.	35° 19.2' N 25° 33.7' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	20 6	3	Round hut with metal framework, green band.	Fl.R. 3s 3M marks S. mole.
16124 <i>E 4814</i>	Akra Ayios Ioannis.	35° 20.0' N 25° 47.0' E	Fl.(2)W. period 12.8s fl. 0.8s, ec. 3s fl. 0.8s, ec. 8.2s	160 49	11	White round masonry tower, brown dwelling with red roof; 29.	Visible 092°-002°.
KOLPOS MERABELLOU:							
16128 <i>E 4816</i>	-Nisis Ayioi Pandes.	35° 12.0' N 25° 44.0' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	85 26	4	Metal framework near dwelling; 23.	
16132 <i>E 4818</i>	--Pier, jetty, head.	35° 12.0' N 25° 43.0' E	Fl.R. period 2s	33 10	7	Concrete column on hexagonal pedestal, red band.	
16136 <i>E 4819</i>	-Nisis Konidha.	35° 08.0' N 25° 49.0' E	L.Fl.W. period 10s fl. 2s, ec. 8s	82 25	4	Metal framework tower; 76.	
16138 <i>E 4819.5</i>	-Ormos Altsi, pier, head.	35° 11.0' N 25° 54.0' E	F.R.	43 13	3	Metal mast.	Private.
ORMOS SITIAS:							
16140 <i>E 4820</i>	-Akra Vamvakia.	35° 13.0' N 26° 08.0' E	Fl.(3)W. period 18s fl. 0.8s, ec. 2s fl. 0.8s, ec. 2s fl. 0.8s, ec. 11.6s	72 22	10	Metal framework on white square hut; 22.	
16144 <i>E 4821</i>	-Limn Sitia, mole, head.	35° 12.8' N 26° 06.8' E	Fl.G. period 2s fl. 0.4s, ec. 1.6s	33 10	5	Column with gallery on white hexagonal hut, green band; 26.	
16145 <i>E 4822</i>	--N. mole, head.	35° 12.6' N 26° 06.7' E	F.G.	23 7	3	White metal column, green band.	
16152 <i>E 4824</i>	Nisis Paximadha, Kriti, off E. point.	35° 23.0' N 26° 11.0' E	Fl.W.R. period 6s fl. 1s, ec. 5s	118 36	W. 12 R. 8	White round hut.	W. 019°-284°, R.-314°, obscured elsewhere.
16156 <i>E 4824.5</i>	Nisis Yianisadha, islet, SE. point.	35° 20.0' N 26° 11.0' E	Fl.W.R. period 10s fl. 0.5s, ec. 9.5s	43 13	W. 7 R. 5	White metal framework tower.	R. 275°-280°, W.-304°, R.-310°, W.-052°, obsc.-213°, W.-275°.
16160 <i>E 4826</i>	Akra Sidheros.	35° 19.0' N 26° 19.0' E	Fl.W. period 10s fl. 0.2s, ec. 9.8s	164 50	23	Round tower, dwelling; 49.	
16164 <i>E 4825</i>	Kiriamadi, on rock.	35° 18.0' N 26° 16.0' E	Fl.W.R. period 3s fl. 0.3s, ec. 2.7s	39 12	W. 4 R. 3	White metal framework tower.	R. 146°-162°, W.-271°, R.-333°, W.-146°.
16168 <i>E 4825.5</i>	--Pier, head.	35° 18.0' N 26° 18.0' E	2 F.R. (vert.)	29 9	3	Metal framework.	1 meter apart.
16170 <i>E 4827</i>	Kouremenos Bay.	35° 13.0' N 26° 16.3' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	20 6	3	Square hut with metal framework and gallery, green band.	

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GREECE-KRITI (CRETE)							
16172 <i>E 4828</i>	Akra Plaka.	35° 11.9' N 26° 19.1' E	Fl.(2)W. period 12s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 8.5s	89 27	10	Metal framework on white round hut; 16.	Visible 084°-353°.
16176 <i>E 4830</i>	Koufonisi.	34° 56.0' N 26° 08.0' E	Fl.(2)W. period 16s fl. 1s, ec. 2s fl. 1s, ec. 12s	239 73	10	Metal framework tower, hut; 19.	
16180 <i>E 4829</i>	Nisidhes Kavalloi.	35° 01.6' N 26° 13.8' E	Fl.(3)W. period 12s fl. 0.3s, ec. 1.5s fl. 0.3s, ec. 1.5s fl. 0.3s, ec. 8.1s	95 29	6	Metal framework; 13.	Visible 181°-225°, 252°-063°, 069°-103°.
16182	Makrys Gyalos Bay.	35° 02.3' N 25° 58.5' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	20 6	3	Round hut with metal framework, red band.	
16184 <i>E 4831</i>	Ierapetra, breakwater, head.	35° 00.0' N 25° 44.0' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	26 8	4	White hexagonal hut, column and gallery, red band.	
16188 <i>E 4833</i>	Akra Theofalos.	34° 59.0' N 25° 30.3' E	Fl.(2)W. period 12s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 8.5s	246 75	10	Metal framework on white round hut; 16.	Visible 262°-086°.
16192 <i>E 4832</i>	Nisis Khrisi.	34° 52.8' N 25° 41.7' E	Fl.(2)W. period 12s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 8.5s	39 12	10	Metal framework on white round hut; 16.	Visible 056°-267°.
16196 <i>E 4833.6</i>	Nisis Megalonis.	34° 55.5' N 24° 48.0' E	Fl.(3)W. period 24s fl. 1s, ec. 3s fl. 1s, ec. 3s fl. 1s, ec. 15s	220 67	11	White pyramid with gallery; 19.	
16200 <i>E 4834</i>	Akra Lithinon.	34° 55.0' N 24° 45.0' E	Fl.W. period 6s fl. 1s, ec. 5s	108 33	12	Iron pyramidal tower; 13.	Visible 301°-176°.
16202 <i>E 4833.7</i>	-Kokkinos Pyrgos.	35° 04.8' N 24° 44.2' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework tower with gallery, red band.	
16204 <i>E 4836</i>	Ayios Galinis, on mole.	35° 06.0' N 24° 42.0' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	33 10	3	Metal framework with gallery and red band; 20.	
16208 <i>E 4840</i>	Nisos Gavdos, Akra Tripiti.	34° 48.0' N 24° 07.0' E	Fl.(2)W. period 16s fl. 1s, ec. 2s fl. 1s, ec. 12s	121 37	12	White metal framework tower with gallery; 20.	Visible 224°-120°.
16212 <i>E 4838</i>	Nisis Gavodhopoula, NW. point.	34° 56.0' N 24° 00.0' E	Fl.W. period 8s fl. 1s, ec. 7s	183 56	12	Metal framework; 13.	Visible 327°-295°.
16216 <i>E 4842</i>	Nisis Loutron.	35° 11.8' N 24° 05.0' E	L.Fl.W. period 10s fl. 2s, ec. 8s	56 17	6	Metal framework on white round hut; 16.	
16220 <i>E 4844</i>	Nisis Palaiochoras.	35° 13.0' N 23° 40.0' E	Fl.W. period 8s fl. 1s, ec. 7s	49 15	8	White iron column; 19.	Visible 259°-217°.
16224 <i>E 4778</i>	Elafonisi, Kriti, off SW. coast.	35° 16.0' N 23° 31.0' E	Fl.(3)W. period 24s fl. 1s, ec. 3s fl. 1s, ec. 3s fl. 1s, ec. 15s	141 43	12	Iron framework obelisk and hut; 49.	Visible 305°-159°.
16226 <i>E 4779</i>	Tousoula Point.	35° 28.8' N 23° 34.1' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework with gallery and column, green band.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GREECE							
KOLPOS PETALION:							
16228 <i>E 4451</i>	-Nisis Mandili.	37° 56.0' N 24° 31.0' E	Fl.(3)W. period 20s fl. 0.1s, ec. 3.2s fl. 0.1s, ec. 3.2s fl. 0.1s, ec. 13.3s	272 83	15	Round tower, dwelling; 33.	
16232 <i>E 4344</i>	-Ormos Karistou, pier, head.	38° 00.0' N 24° 25.0' E	Fl.G. period 1.5s fl. 0.2s, ec. 1.3s	26 8	3	Metal framework on round hut.	
16236 <i>E 4345.2</i>	--Inner pier, head.	38° 00.8' N 24° 25.1' E	2 F.R. (vert.)	30 9	3	White metal column.	1 meter apart.
16240 <i>E 4346</i>	-Nisis Paximadhi.	37° 57.0' N 24° 23.0' E	Fl.W. period 5s fl. 0.4s, ec. 4.6s	89 27	4	Iron framework tower, masonry base.	
16244 <i>E 4348</i>	-Nisis Foundion, islet, S. head.	38° 01.8' N 24° 14.9' E	Fl.W. period 3.6s fl. 0.3s, ec. 3.3s	26 8	5	White square hut with two columns; 18.	
16252 <i>E 4346.4</i>	Raftis.	37° 53.0' N 24° 02.7' E	Fl.W. period 2s fl. 0.5s, ec. 1.5s	328 100	9	Metal framework with gallery; 23.	
16256 <i>E 4347</i>	-Akra Velani.	37° 59.0' N 24° 02.0' E	Fl.W. period 1.5s fl. 0.2s, ec. 1.3s	23 7	4	Column on white round hut; 20.	
16260 <i>E 4347.4</i>	-Rafina, inner mole, head.	38° 01.0' N 24° 01.0' E	F.G.	29 9	3	White metal column, green band.	
16264 <i>E 4347.6</i>	-Ormos Rafinas, mole, head.	38° 01.0' N 24° 01.0' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	29 9	3	White hexagonal hut, column and gallery, green band.	
16266 <i>E 4349.5</i>	-Agios Andreas.	38° 04.3' N 24° 00.1' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	20 6	3	White round hut.	
16268 <i>E 4350</i>	-Nisis Dhipsa.	38° 06.7' N 24° 06.5' E	Fl.W. period 4s fl. 0.2s, ec. 3.8s	56 17	6	White round hut.	
16269 <i>E 4351</i>	-Nea Stira, pier, head.	38° 10.8' N 24° 12.3' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework with gallery and metal column, green band.	
16270 <i>E 4351.3</i>	-Rozani, mole, head.	38° 10.5' N 24° 12.4' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework with gallery and metal column, green band.	
NOTIOS EVVOIKOS KOLPOS:							
16272 <i>E 4354</i>	-Nisidhes Verdhoyi, NW. islet.	38° 11.4' N 24° 05.4' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	56 17	6	White metal framework.	Obscured by Pathenopi Islet.
16276 <i>E 4350.3</i>	-Kouneli Islet.	38° 11.0' N 24° 10.0' E	Fl.W.R. period 1.5s fl. 0.3s, ec. 1.2s	33 10	W. R. 5 3	Metal framework on square hut.	W. 100°-290°, R.-317°, obsc.-100°.
16280 <i>E 4352</i>	--SE. islet.	38° 11.0' N 24° 06.0' E	Fl.(2)W. period 16s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 14.2s	33 10	6	White iron tower.	Visible 123°-091°.
16284 <i>E 4355</i>	-Akra Ayios Marina.	38° 12.0' N 24° 04.1' E	Fl.(3)W. period 15s fl. 0.5s, ec. 1.3s fl. 0.5s, ec. 1.3s fl. 0.5s, ec. 10.9s	59 18	6	Metal framework tower on hut.	
16285 <i>E 4356</i>	--Pier, head.	38° 11.2' N 24° 04.0' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	23 7	3	Metal column on pedestal.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GREECE							
16288 <i>E 4358</i>	-Ormos Aliveriou, breakwater, head.	38° 23.0' N 24° 03.0' E	Fl.R. period 1.5s fl. 0.2s, ec. 1.3s	24 7	3	Metal framework tower on hut.	
16289 <i>E 4357</i>	--Power station, mole, head.	38° 23.4' N 24° 02.9' E	Fl.G. period 4s fl. 1s, ec. 3s	33 10	7	Column and gallery on hexagonal concrete pedestal, green band.	
16292 <i>E 4359</i>	-Milaki, pier, head.	38° 23.0' N 24° 03.0' E	2 F.R. (vert.)	29 9	5	White metal column.	
16296 <i>E 4360</i>	-Ormos Oropou, Skala Oropou.	38° 19.0' N 23° 49.0' E	Fl.W. period 4s fl. 0.2s, ec. 3.8s	19 6	7	Round hut.	
16300 <i>E 4361</i>	--Oropos, pier, head.	28° 18.0' N 23° 48.0' E	F.R.	19 6	1	Metal mast.	
16304 <i>E 4362</i>	-Limn Eretrias (Nea Psara), on rock near head of mole, NW. side of entrance.	38° 23.0' N 23° 47.0' E	Fl.W.R. period 1.5s fl. 0.3s, ec. 1.2s	23 7	W. R. 3	Metal framework on white round hut.	W. 342°-061°, R.-342°.
16308 <i>E 4366</i>	-Stenon Avlidhos, Akra Avlis.	38° 24.0' N 23° 38.0' E	Fl.(2)W. period 12s fl. 1s, ec. 1s fl. 1s, ec. 9s	30 9	6	Square tower on dwelling.	
16310 <i>E 4369</i>	-Ormos Megalo Vathi, pier, head.	38° 25.2' N 23° 35.7' E	2 F.R. (vert.)				
16311 <i>E 4369.4</i>	-Khalkidha Shipyard, pier, head.	38° 25.0' N 23° 36.0' E	3 F.R. (vert.)	23 7	3	White metal mast.	1 meter apart.
16312 <i>E 4368</i>	-Nisis Passas.	38° 25.7' N 23° 37.0' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	30 9	5	Iron framework obelisk, hut.	Visible 313°-168°.
16316 <i>E 4370</i>	-Akra Perama.	38° 26.5' N 23° 35.9' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	36 11	5	Metal framework on white square hut, red band; 19.	
16317 <i>E 4372</i>	-Dhiavlos Steno, pier, head.	38° 27.0' N 23° 36.0' E	2 F.G. (vert.)	20 6	3	Metal column.	1 meter apart.
16320 <i>E 4371</i>	-Porthmos Evripou, Khalkis.	38° 26.6' N 23° 35.6' E	2 F.R. (vert.)	33 10	3	White metal column, red band; 26.	1 meter apart.
16324 <i>E 4375</i>	-Ikhnios Scala, strait, N. entrance, W. side.	38° 28.0' N 23° 35.0' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	26 8	3	Concrete column on hut.	
16328 <i>E 4378</i>	-Kakokefali.	38° 28.0' N 23° 36.0' E	Fl.(2)R. period 18s fl. 0.2s, ec. 5.8s fl. 0.2s, ec. 11.8s	68 21	12	Square tower; 39.	
16332 <i>E 4380</i>	-Nea Artaki.	38° 30.8' N 23° 37.7' E	Fl.W. period 1.5s fl. 0.3s, ec. 1.2s	30 9	5	White hexagonal hut with column.	Visible 287°-180°.
16336 <i>E 4382</i>	-Akra Mnima.	38° 35.0' N 23° 32.0' E	Fl.W. period 3.5s fl. 0.3s, ec. 3.2s	33 10	6	Hexagonal hut with column and gallery on pedestal.	
16340 <i>E 4408</i>	-Larimna.	38° 34.0' N 23° 17.3' E	Fl.W. period 5s fl. 0.3s, ec. 4.7s	26 8	5	White round hut with metal framework.	
16341 <i>E 4408.5</i>	--Quay, W. head.	38° 34.1' N 23° 17.7' E	Fl.R. period 5s fl. 1s, ec. 4s	36 11	9	Pyramid, red band; 32.	
16344 <i>E 4409</i>	-Akra Stalamata.	38° 38.6' N 23° 18.5' E	Fl.(2)W. period 8s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 6.2s	50 15	7	Iron framework tower, hut.	Visible 113°-302°.
16348 <i>E 4384</i>	-Ormos Limnis, W. point.	38° 45.8' N 23° 18.7' E	Fl.W. period 1.5s fl. 0.2s, ec. 1.3s	85 26	5	White round hut with column.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GREECE							
16352 <i>E 4412</i>	-Nisis Atalandi, N. point.	38° 41.0' N 23° 05.4' E	Fl.W. period 1.5s fl. 0.2s, ec. 1.3s	33 10	5	White round hut with metal framework.	Visible 043°-266°.
16353 <i>E 4413</i>	--Mole, head.	38° 40.4' N 23° 04.6' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	23 7	3	Metal framework with gallery and metal column with green band.	
16356 <i>E 4413</i>	-Skala Livanates.	38° 42.4' N 23° 08.8' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework with gallery, green band.	
16360 <i>E 4416</i>	-Akra Arkitsa.	38° 45.3' N 23° 02.0' E	Fl.(2)W. period 5s fl. 0.2s, ec. 1.5s fl. 0.2s, ec. 3.1s	49 15	19	Square tower, dwelling; 49.	
16372 <i>E 4417</i>	--Ormos Yialtrou.	38° 52.0' N 22° 59.0' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	16 5	5	Iron column, hut.	
16374 <i>E 4410.6</i>	-Loutra Aidhipsou, on center of ramp.	38° 51.4' N 23° 02.4' E	3 F.Y.	20 6	3	White metal column.	Lights form inverted "L".
DHIAVLOS KNIMIDHOS:							
16376 <i>E 4422</i>	-Akra Knimis.	38° 47.0' N 22° 49.0' E	Fl.W.R. period 2s fl. 0.2s, ec. 1.8s	20 6	W. R. 6 3	White hut; 17.	W. 098°-140°, R.-230°, W.-278°.
16377 <i>E 4418</i>	--S. breakwater, head.	38° 45.0' N 22° 51.0' E	F.G.	23 7	7	Concrete column with green band.	
16378 <i>E 4418.5</i>	--Quay, N. head.	38° 45.5' N 22° 51.4' E	3 F.G.	20 6	3	Concrete column.	
16379 <i>E 4418.7</i>	--Motel Levedi, mole, head.	38° 26.0' N 22° 51.0' E	F.G.	16 5	3	White concrete column with green band.	
16380 <i>E 4420</i>	-Nisoi Likhadnes, Nisis Strongili, summit.	38° 48.5' N 22° 49.2' E	Fl.(2)W.R. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	134 41	W. R. 12 9	White round masonry tower, dwelling.	R. 113°-293°, W.-113°.
MALIAKOS KOLPOS:							
16384 <i>E 4430</i>	-Akra Dhrepanon.	38° 52.0' N 22° 45.5' E	Fl.W. period 6s fl. 1s, ec. 5s	26 8	5	Framework tower on square hut.	
16388 <i>E 4424</i>	-Akra Khiliomili.	38° 51.0' N 22° 41.8' E	Fl.(3)W. period 15s fl. 0.4s, ec. 1.5s fl. 0.4s, ec. 1.5s fl. 0.4s, ec. 10.8s	33 10	10	Metal round tower, dwelling; 28.	
16392 <i>E 4427</i>	-Ormos Stilidhas, on quay.	38° 55.0' N 22° 37.0' E	Dir.L.Fl.Y. period 10s fl. 2s, ec. 8s	33 10	5	White metal tower with gallery, orange triangular daymark, point down.	Visible 300°-330°.
16396 <i>E 4428.2</i>	--1 km., 137° from light on pier.	38° 54.0' N 22° 37.0' E	Fl.R. period 2s fl. 0.2s, ec. 1.8s	23 7	2	Iron tower, mast.	
16400 <i>E 4428</i>	--1 km. 134° from light on pier.	38° 54.0' N 22° 37.0' E	Fl.G. period 2s fl. 0.2s, ec. 1.8s	23 7	2	Iron tower, mast.	
16404 <i>E 4425</i>	-Ormos Ayios Marinas, pier, head.	38° 53.0' N 22° 35.0' E	F.R.	82 25	3	White metal mast.	
16406 <i>E 4433</i>	Agronivest Quay, SE. head.	38° 53.0' N 22° 49.0' E	3 F.G.	26 8	3	White metal column.	Lights form inverted "L".
16407 <i>E 4433.2</i>	--NW. head.	38° 53.0' N 22° 49.0' E	3 F.R.	26 8	3	White metal column.	Lights form inverted "L".

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GREECE							
16408 E 4432	-Akra Vasilinas, channel, S. entrance.	38° 52.2' N 22° 51.1' E	Oc.W.G. period 5s fl. 4s, ec. 1s	30 9	W. 14 G. 11	Square masonry tower, dwelling; 32.	G. 025°-041°, W.-252°.
16410 E 4433.5	-St. Sostis Point.	38° 56.6' N 22° 59.3' E	Fl.W. period 8s fl. 1s, ec. 7s	36 11	6	White round hut.	
16412 E 4434	-Ifalos Oreon.	38° 57.2' N 23° 02.8' E	Fl.(2)W. period 12s	21 6	9	ISOLATED DANGER BRB, beacon, topmark.	
16416 E 4436	-Skala Oreon, N. pier, head.	38° 57.0' N 23° 05.0' E	Fl.R. period 1.5s fl. 0.2s, ec. 1.3s	20 6	3	Column, red band, on white round hut; 17.	
16417 E 4435	-Neos Pyrgos, mole, head.	38° 56.3' N 23° 04.1' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework, gallery and column, green band; 19.	
16420 E 4440	-Aryionisos.	39° 01.0' N 23° 04.0' E	Fl.W. period 5s fl. 0.1s, ec. 4.9s	105 32	16	Round tower, dwelling; 23.	
16422 E 4441	-Pefki, mole, head.	39° 00.4' N 23° 12.1' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	23 7	3	Metal framework, gallery and column, red band; 19.	
NISOS EVVOIA:							
16424 E 4451.3	-Akra Kafirevs, Nisis Arapis.	38° 09.5' N 24° 36.1' E	Fl.(2)W. period 15s fl. 1s, ec. 3s fl. 1s, ec. 10s	112 34	10	Round hut.	Visible 098°-006°.
16428 E 4451.6	-Ormos Petrion, entrance, N. side.	38° 24.5' N 24° 12.5' E	Fl.W. period 5s fl. 1s, ec. 4s	131 40	4	White round hut with metal framework.	Visible 253°-138°.
16432 E 4453	Nisis Prasoudha.	38° 40.0' N 24° 15.0' E	Fl.W. period 5s fl. 0.1s, ec. 4.9s	138 42	16	Round masonry tower dwelling; 57.	
16435 E 4451.8	-Platana, breakwater, head.	38° 36.7' N 24° 07.3' E	Fl.Y. period 2s fl. 0.3s, ec. 1.7s	23 7	3	Metal framework with metal column and gallery.	
16436 E 4452	-Ormos Kimis, S. breakwater.	38° 37.0' N 24° 08.0' E	Fl.R. period 1.5s fl. 0.2s, ec. 1.3s	26 8	2	Concrete column on hut.	
16437 E 4452.2	--E. mole, head.	38° 37.6' N 24° 07.6' E	Fl.G. period 1.5s fl. 0.2s, ec. 1.3s	16 5	2	White round hut on pedestal, green band; 10.	Visible 353°-183°.
16438 E 4452.08	---S. head.	38° 37.2' N 24° 07.6' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	26 8	6	Metal framework, gallery, metal column, green band; 18.	
16441 E 4452.3	-Ag. Grigorios, Khillis harbor.	38° 39.9' N 24° 07.8' E	Fl.W. period 2s fl. 0.3s, ec. 1.7s	30 9	5	White metal framework.	
16442 E 4453.2	Akra Sarakiniko.	38° 46.1' N 23° 42.2' E	Fl.W. period 8s fl. 1s, ec. 7s	85 26	8	Metal framework tower.	
NISOI VORIAI SPORADHES:							
16443 E 4453.9	-Akhili Marina, N. mole, head.	38° 52.1' N 24° 34.2' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework, gallery, metal column, green band.	
16443.1 4 4 53.91	--S. mole, head.	38° 52.0' N 24° 34.2' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework, gallery, metal column, red band.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GREECE							
16444 <i>E 4454</i>	--Akra Lithari.	38° 46.5' N 24° 40.8' E	Fl.(3)W. period 30s fl. 1s, ec. 3.5s fl. 1s, ec. 3.5s fl. 1s, ec. 20s	315 96	16	Round tower, dwelling; 40.	Visible 189°-067°.
16445 <i>E 4454.1</i>	--Treis Boukes.	38° 45.7' N 24° 37.1' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	26 8	6	Metal framework tower, green band.	Visible 140°-313°.
16446 <i>E 4454.2</i>	--Sarakino Island.	38° 45.4' N 24° 37.5' E	Fl.W. period 4s fl. 0.4s, ec. 3.6s	203 62	7	Metal framework.	Visible 140°-313°.
16447 <i>E 4454.5</i>	--Marmara Point.	38° 45.6' N 24° 34.1' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 6.5s	26 8	7	Metal framework.	
16448 <i>E 4455</i>	--Akra Latomion.	38° 48.0' N 24° 29.0' E	Fl.W. period 3.3s fl. 0.3s, ec. 3s	59 18	5	White iron tower, red band.	
16452 <i>E 4455.3</i>	--Ormos Linaria.	38° 50.0' N 24° 32.0' E	Fl.W.R.G. period 2.5s fl. 0.3s, ec. 2.2s	23 7	W. R. G. 4 4 4	Round hut with metal framework.	R. 353°-021°, W.-120°, G.-300°, obsc.-353°.
16456 <i>E 4455.7</i>	--Podhi, Vrakhonisis Notio.	39° 00.0' N 24° 29.0' E	Fl.W. period 3s fl. 0.4s, ec. 2.6s	233 71	6	White round hut.	
16460 <i>E 4455.5</i>	--Nisis Vorio Podhi.	39° 01.0' N 24° 28.0' E	Fl.W. period 10s fl. 1s, ec. 9s	138 42	6	Metal framework tower on pedestal; 20.	
16464 <i>E 4482</i>	--Nisis Psathoua.	39° 30.3' N 24° 11.1' E	Fl.W. period 10s fl. 0.3s, ec. 9.7s	131 40	17	Round masonry tower, dwelling; 82.	
16468 <i>E 4480</i>	--Nisis Pelerissa, SW. of Nisos Pelagos.	39° 18.7' N 24° 02.2' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	82 25	7	White round hut with metal framework.	Visible 270°-189°.
16469 <i>E 4479</i>	--Nisis Peristera.	39° 10.9' N 23° 56.4' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	33 10	5	White round hut; 11.	
16470 <i>E 4478.52</i>	--Ormos Patitiri, breakwater, head.	39° 08.7' N 23° 52.0' E	Fl.G. period 1.5s fl. 0.3s, ec. 1.2s	26 8	3	White metal framework tower, green band.	
16471 <i>E 4478.5</i>	--Bay, W. side.	39° 09.0' N 23° 52.0' E	Fl.R. period 1.5s fl. 0.3s, ec. 1.2s	33 10	3	White metal framework tower, red band.	
16472 <i>E 4478</i>	--Akra Telion, Alonnisos, SW. point.	39° 08.5' N 23° 49.8' E	Fl.(3)W. period 12s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 7.2s	69 21	12	White lantern house; 13.	Visible 293°-171°.
16476 <i>E 4476</i>	--Nisis Mikro.	39° 08.6' N 23° 48.6' E	Fl.W. period 4s fl. 0.4s, ec. 3.6s	69 21	6	White lantern house; 13.	Visible 076°-031°.
16477 <i>E 4475.2</i>	--Agnonta Bay, W. side.	39° 05.0' N 23° 42.3' E	Fl.R. period 2s fl. 0.2s, ec. 1.8s	23 7	3	White framework tower with gallery, red band.	
16478 <i>E 4475.22</i>	--E. side.	39° 04.9' N 23° 42.5' E	Fl.G. period 2s fl. 0.2s, ec. 1.8s	33 10	3	White hexagonal hut with column and gallery, green band; 29.	
--Nisos Skopelos:							
16480 <i>E 4474</i>	--Akra Gourouni.	39° 12.0' N 23° 35.0' E	Fl.(3)W. period 30s fl. 1.5s, ec. 3s fl. 1.5s, ec. 3s fl. 1.5s, ec. 19.5s	229 70	20	Square masonry tower, dwelling; 47.	Visible 029°-244°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GREECE							
16484 <i>E 4475</i>	--Glossa, N. mole, head.	39° 09.8' N 23° 36.8' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	20 6	3	Metal framework; 14.	
16484.5 <i>E 4475.1</i>	---S. mole, head.	39° 09.8' N 23° 36.9' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	20 6	3	Metal framework, gallery, metal column; 11.	
16486 <i>E 4475.15</i>	--Neo Klima, W. mole, head.	39° 08.2' N 23° 38.6' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework, gallery, metal column, red band.	
16486.5 <i>E 4475.16</i>	---E. mole, head.	39° 08.3' N 23° 38.6' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework, gallery, metal column, green band.	
16492 <i>E 4475.4</i>	---N. breakwater.	39° 07.5' N 23° 44.1' E	Fl.G. period 2s	29 9	6	Column on pedestal, green band.	
16496 <i>E 4472</i>	-Dhiavlos Skopelou, Nisis Repon.	39° 09.0' N 23° 32.0' E	Fl.(2)W.R. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	138 42	W. 12 R. 8	Round masonry tower, dwelling; 36.	W. 183°-261°, R.-313°, W.-020°, obsc.-183°. Reserve light F.W.R.
16500 <i>E 4466</i>	-Nisos Skiathos, Prasoniso.	39° 08.3' N 23° 28.2' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	45 14	6	Metal framework tower on hut.	
16504 <i>E 4468</i>	--Dhaskalonisi.	39° 09.7' N 23° 29.7' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	36 11	6	White round hut with column.	
16505 <i>E 4467</i>	--Mole, head.	39° 10.0' N 23° 30.0' E	Fl.R. period 1.5s fl. 0.3s, ec. 1.2s	30 9	3	White metal framework tower with red band.	
NISOS EUVOIA:							
16508 <i>E 4453.5</i>	-Mandoudi, loading pier, head.	38° 49.0' N 23° 32.0' E	2 F.R. (horiz.)	118 36	3	Metal mast.	
16512 <i>E 4456</i>	-Levkonisia.	38° 57.0' N 23° 27.0' E	Fl.(3)W. period 15s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 10.2s	69 21	10	Metal framework tower, on hut.	Visible 138°-018°.
16516 <i>E 4458</i>	-Akra Artemision.	39° 03.0' N 23° 20.2' E	Fl.(2)W.R. period 15s fl. 0.1s, ec. 4.9s fl. 0.1s, ec. 9.9s	203 62	W. 15 R. 12	White round masonry tower dwelling; 62.	W. 077°-178°, obsc.-187°, W.-194°, R.-234°, W.-317° obsc.-077°.
DHIAVLOS SKIATHOU:							
16520 <i>E 4464</i>	-Akra Sipias.	39° 11.0' N 23° 21.0' E	L.Fl.W. period 10s fl. 2s, ec. 8s	344 105	10	Beacon.	Visible 161°-032°.
16524 <i>E 4462</i>	-Ifalos Levkari.	39° 08.4' N 23° 20.6' E	Fl.(2)W. period 8s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	36 11	9	ISOLATED DANGER BRB, beacon, topmark; 39.	
16526 <i>E 4461</i>	Ormos Plantanias.	39° 08.4' N 23° 16.5' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	30 9	3	Metal framework with gallery, metal column, green band.	
PAGASITIKOS KOLPOS:							
16528 <i>E 4442</i>	-Akra Kavoulia.	39° 06.0' N 23° 03.0' E	L.Fl.(3)W. period 20s fl. 2s, ec. 3s fl. 2s, ec. 3s fl. 2s, ec. 8s	72 22	20	Square tower and dwelling; 46.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GREECE							
16530 E 4444	-Ormos Sourpis, pier, head.	39° 10.0' N 22° 51.0' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	26 8	5	White metal framework tower, green band.	
16532 E 4445.5	-Mamidhakis, pier, head.	39° 18.0' N 22° 54.0' E	2 F.R. (vert.)	20 6	3	White metal column.	1 meter apart.
16536 E 4445.7	-Iraklis Volou, W. of pier, head.	39° 18.0' N 22° 56.0' E	2 F.R. (vert.)	26 8	3	White metal column on mooring dolphin.	1 meter apart.
16540 E 4445.75	--E. of pier, head.	39° 17.8' N 22° 56.3' E	2 F.R. (vert.)	26 8	3	White metal column on mooring dolphin.	1 meter apart.
-Kolpos Volos:							
16544 E 4446	--Akra Sesklo.	39° 20.6' N 22° 56.6' E	Fl.W. period 1.5s fl. 0.2s, ec. 1.3s	69 21	6	White square hut with metal framework.	Visible 148°-005°.
16548 E 4449	-Limin Volou, oil installation pier, head.	39° 21.0' N 22° 59.3' E	3 F.G. (vert.)	30 9	3	White metal column.	1 meter apart.
16552 E 4449.4	--Tsimenta, pier, head.	39° 21.0' N 22° 59.0' E	Fl.(2)W. period 10s fl. 1s, ec. 1s fl. 1s, ec. 7s	56 17	12	Concrete hexagonal hut with column and gallery.	
16554 E 4448	-Anavros River.	39° 22.0' N 22° 57.9' E	Fl.Y. period 2s fl. 0.3s, ec. 1.7s	23 7	4	White metal framework.	
16556 E 4447	--Limin Volou, breakwater, head.	39° 21.0' N 22° 57.0' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	27 8	4	Metal framework on round hut, green band; 20.	
16557 E 4447.1	--Detached breakwater, NE. head.	39° 20.9' N 22° 56.7' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	26 8	6	Metal framework tower with gallery, red band.	
16558 E 4485	Ioannis, E. mole, head.	39° 25.3' N 23° 09.7' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	39 12	3	Metal column, green band.	
16559 E 4485.1	-W. mole, head.	39° 25.1' N 23° 09.6' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	33 10	3	Metal framework, gallery, metal column, red band.	
16560 E 4489	-Akra Dhermatas.	39° 47.8' N 22° 50.9' E	Fl.(2)W. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	246 75	11	White metal framework with gallery.	Visible 131°-345°.
THERMAIKOS KOLPOS:							
16564 E 4492	-Stomion, Tsayezi, reef.	39° 52.1' N 22° 44.3' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	26 8	5	Metal column on round hut.	
16565 E 4492.2	--S. mole, head.	39° 51.1' N 22° 44.1' E	Fl.G. period 2s fl. 0.2s, ec. 1.8s	23 7	3	Metal framework with gallery and metal column with green band.	
16565.5 E 4492.3	--N. mole, head.	39° 51.2' N 22° 44.1' E	Fl.R. period 2s fl. 0.2s, ec. 1.8s	23 7	3	Metal framework with gallery and metal column with red band.	
16568 E 4494	-Akra Epanomi.	40° 22.0' N 22° 53.0' E	Fl.(3)W. period 18s fl. 0.3s, ec. 1.3s fl. 0.3s, ec. 1.3s fl. 0.3s, ec. 14.5s	36 11	6	Metal framework on round hut.	Radar reflector.
16572 E 4496	-Akra Akheradha.	40° 21.8' N 22° 39.3' E	Fl.W. period 5s fl. 1s, ec. 4s	43 13	10	Metal framework with gallery on pyramid.	
16576 E 4498	-Akra Megalo Emvolon.	40° 30.0' N 22° 49.0' E	Fl.W.R. period 10s fl. 0.2s, ec. 9.8s	98 30	W. 17 R. 10	Round tower and dwelling.	R. 335°-025°, W.-244°. Horn: 1 bl. ev. 60s.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GREECE							
16580 <i>E 4496.5</i>	--Nea Mikhania, pier, head.	40° 28.0' N 22° 51.0' E	F.G.	20 6	3		
16580.5 <i>E 4496.57</i>	---Ichthyoskala, N. mole, head.	40° 27.6' N 22° 51.5' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework, gallery, metal column, red band.	
16580.6 <i>E 4496.58</i>	---S. mole, head.	40° 27.5' N 22° 51.5' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework, gallery, metal column, green band.	
16581 <i>E 4496.6</i>	---W. breakwater, head.	40° 27.8' N 22° 51.2' E	Fl.G. period 2s fl. 0.2s, ec. 1.8s	33 10	3	Metal framework with gallery and column.	
16581.5 <i>E 4496.7</i>	---E. breakwater, head.	40° 27.8' N 22° 51.3' E	Fl.R. period 2s fl. 0.2s, ec. 1.8s	30 9	3	Metal framework with gallery and column.	
16584 <i>E 4497</i>	-Nisis Axios (Kavoura).	40° 30.6' N 22° 44.9' E	Fl.(2)W.R.G. period 12s fl. 1s, ec. 1s fl. 1s, ec. 9s	30 9	W. 10 R. 8 G. 8	Metal framework tower on building.	R. 055°-160°, G.-243°, W.-263°, R.-330°, W.-350°, G.-055°. Horn: Mo.(N) ev. 60s. Radiobeacon.
	-RACON		X(- • • -) period 60s		7		
16588 <i>E 4500</i>	-AVIATION LIGHT.	40° 31.4' N 22° 58.5' E	Al.W.G. period 6s	33 10	13		Occasional.
16592 <i>E 4501</i>	-Mooring island.	40° 32.0' N 22° 58.0' E	F.R.	23 7	3	Beacon tower; 15.	
16596 <i>E 4502</i>	-Akra Mikro Emvolon.	40° 35.0' N 22° 56.0' E	Fl.(3)G. period 15s fl. 0.9s, ec. 1.4s fl. 0.9s, ec. 1.4s fl. 0.9s, ec. 9.5s	56 17	5	Metal framework on square hut.	
16597	-Akra Mikro Lighted Buoy.	40° 35.0' N 22° 55.4' E	Q.G.			STARBOARD (A) G, pillar.	
	-RACON		T(-)				
16598	--Outer pier, head.	40° 34.6' N 22° 56.3' E	F.W.				
16600 <i>E 4502.3</i>	--W. breakwater, head.	40° 34.0' N 22° 57.0' E	Fl.G. period 2s fl. 0.5s, ec. 1.5s	29 9	5	White hexagonal hut with column and gallery, green band.	
16604 <i>E 4502.4</i>	--E. breakwater, head.	40° 34.0' N 22° 57.0' E	Fl.R. period 2s fl. 0.5s, ec. 1.5s	29 9	5	White hexagonal hut with column and gallery, red band.	
16608 <i>E 4503</i>	-Ormos Thessalonikis, directional light 050°.	40° 36.5' N 22° 57.0' E	Dir.Iso.W.R.G. period 10s	33 10	19	Metal framework tower.	R. 044°-048°30', W.-051°30', G.-056°. Horn: 1 bl. ev. 60s. Radiobeacon.
16612 <i>E 4503.2</i>	--Off Yacht Club.	40° 37.0' N 22° 57.0' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	20 6	4	Metal framework on round hut.	
16616 <i>E 4503.7</i>	--Root of pipeline.	40° 37.5' N 22° 56.9' E	2 F.Y. (vert.)	26 8	4	White concrete column.	Lighted buoy marks end of pipeline.
16620 <i>E 4506</i>	--Breakwater, SE. head.	40° 38.0' N 22° 56.0' E	Fl.R. period 4s	46 14	7	Concrete column with gallery.	
16624 <i>E 4505</i>	---W. head.	40° 38.0' N 22° 55.0' E	Fl.G. period 4s fl. 1.6s, ec. 2.4s	46 14	7	Concrete column with gallery.	
16628 <i>E 4504</i>	--Pier "I", harbor office building, SW. corner.	40° 37.8' N 22° 56.2' E	Fl.G. period 4s fl. 1.5s, ec. 2.5s	58 18	10	White metal framework tower green band.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GREECE							
16636 <i>E 4509</i>	--Oil terminal, pier, head.	40° 38.2' N 22° 53.8' E	Fl.(3)W. period 12s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 7s	33 10	10	White hexagonal hut with column and gallery.	
16640 <i>E 4488</i>	-Akra Kassandra.	39° 58.0' N 23° 23.0' E	Fl.(2)W. period 15s fl. 0.4s, ec. 3.4s fl. 0.4s, ec. 10.8s	62 19	24	Octagonal dwelling; 47.	
KOLPOS KASSANDRAS:							
16644 <i>E 4511</i>	-Akra Paliourian, W. entrance, point.	39° 55.0' N 23° 45.0' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	66 20	7	White square hut, metal framework structure; 16.	
16646	-Pallini.	40° 03.7' N 23° 27.9' E	F.R.	20 6	3	White metal column, red band.	
-Limin Koufo:							
16648 <i>E 4512</i>	--Akra Pagona.	39° 57.5' N 23° 55.0' E	Fl.G. period 3s fl. 0.4s, ec. 2.6s	43 13	5	White square hut, tower, green band; 21.	
16652 <i>E 4512.5</i>	--- Spilia.	39° 57.8' N 23° 55.2' E	Fl.R. period 3s fl. 0.4s, ec. 2.6s	52 16	4	White square hut, tower, red band; 20.	
16656 <i>E 4516</i>	-Skaha Gerakini, pier, head.	40° 16.1' N 23° 26.6' E	2 F.R. (vert.)	26 8	3	White metal column.	1 meter apart. Private.
16660 <i>E 4513</i>	-Akra Papadhia.	40° 00.0' N 23° 49.0' E	Fl.W.R. period 3s fl. 0.3s, ec. 2.7s	29 9	W. R. 5 3	Metal framework on round hut.	W. 269°-138°, R.-168°.
16664 <i>E 4515</i>	-Neos Marmaras.	40° 05.0' N 23° 47.0' E	Fl.R. period 1.5s fl. 0.2s, ec. 1.3s	36 11	3	Metal square hut with tower.	
SINGITIKOS KOLPOS:							
16668 <i>E 4520</i>	-Akra (Dhrepanon), Psevdhokavos.	39° 56.9' N 23° 59.5' E	Fl.(2)W. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	171 52	10	White metal framework tower on pedestal.	
16670	-Sykia, pier, head.	40° 02.2' N 23° 59.8' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework with gallery and column.	
16672 <i>E 4522</i>	-Ormos Sikias, Akra Adholo.	40° 02.3' N 24° 00.8' E	Fl.W. period 1.5s fl. 0.2s, ec. 1.3s	36 11	4	White square hut with two pillars.	Visible 161°-291°. Visible inside the bay from 090°.
16676 <i>E 4523</i>	-Ormos Dhimitri.	40° 14.0' N 23° 46.0' E	Fl.G. period 1.5s fl. 0.2s, ec. 1.3s	34 10	3	Metal framework tower on pedestal, green band.	Visible 115°-038°.
16680 <i>E 4523.4</i>	-Ormos Pyrgadikia.	40° 20.1' N 23° 43.2' E	Q.R.	20 6	3	Metal framework on white round hut, red band; 19.	
16682 <i>E 4523.9</i>	-Ammoyliani, mole, head.	40° 20.2' N 23° 55.3' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework with gallery and column.	
16684 <i>E 4524</i>	-Nisoi Dhrenia.	40° 19.1' N 23° 57.8' E	Fl.W.R. period 2.5s fl. 0.3s, ec. 2.2s	36 11	W. R. 4 3	Metal framework on white round hut; 18.	W. 103°-323°, R.-103°.
16685 <i>E 4525</i>	-Limenas Ouranoupolis, mole, head.	40° 19.6' N 23° 58.7' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	23 7	3	Metal framework with gallery, green band.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GREECE							
16688 <i>E 4526</i>	-Dhafni.	40° 13.0' N 24° 13.3' E	FI.W. period 2.5s fl. 0.3s, ec. 2.2s	56 17	5	Metal framework on white round hut; 16.	
16692	-Akra Pinnes.	40° 07.0' N 24° 18.0' E	FI.(3)W. period 15s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 11.7s	85 26	9	Metal framework on square hut.	Visible 284°-140°.
16696	Akra Akraathos.	40° 09.0' N 24° 24.0' E	L.FI.W. period 10s fl. 2s, ec. 8s	154 47	11	Metal framework with gallery on square hut.	Visible 177°-045°.
16700 <i>E 4533</i>	Ormos Plati, NW. point.	40° 26.3' N 23° 59.7' E	Q.W.	72 22	4	Metal framework tower on round hut; 17.	
16704 <i>E 4532</i>	Nisidhes Stilaria, Akra Arapis.	40° 27.0' N 24° 01.0' E	FI.W. period 2.5s fl. 0.2s, ec. 2.3s	98 30	6	Metal framework on round hut.	Visible 049°-307°.
16706 <i>E 4533.6</i>	Limenas Neon Rodhon.	40° 23.0' N 23° 56.0' E	FI.R. period 2s fl. 0.3s, ec. 1.7s	30 9	3	Metal framework with gallery, red band.	
16707 <i>E 4533.7</i>	Ierissos, E. mole, head.	40° 23.8' N 23° 53.5' E	FI.R. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework, gallery, red band.	
16707.5 <i>E 4533.8</i>	-W. mole, head.	40° 23.8' N 23° 53.5' E	FI.G. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework, gallery, green band; 17.	
16708 <i>E 4534</i>	Ormos Stratoni, E. mole.	40° 31.0' N 23° 50.0' E	F.R.	76 23	5	Round stone column; 16.	
16710 <i>E 4535</i>	Olimbias.	40° 35.5' N 23° 47.4' E	FI.R. period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework with gallery and red column.	
16712 <i>E 4536</i>	Nisis Kavkanas, E. head.	40° 37.0' N 23° 48.0' E	FI.(3)W. period 18s fl. 0.3s, ec. 1.3s fl. 0.3s, ec. 1.3s fl. 0.3s, ec. 14.5s	75 23	6	Metal framework on square hut.	Visible 126°-086°.
16716 <i>E 4537</i>	Ormos Stavros, mole, head.	40° 40.1' N 23° 42.1' E	FI.R. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal column with gallery on metal framework, red band.	
16720 <i>E 4538</i>	Ormos Eleftheron, N. side.	40° 50.6' N 24° 19.6' E	FI.W. period 3s fl. 0.4s, ec. 2.6s	66 20	5	Metal square hut with tower.	
16728 <i>E 4539.5</i>	Nea Iraklitsa, E. mole, head.	40° 52.1' N 24° 19.1' E	FI.R. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework, gallery, red band.	
16732 <i>E 4539.6</i>	-W. mole, head.	40° 52.0' N 24° 19.0' E	FI.G. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework, gallery, green band.	
LIMIN KAVVALAS:							
16736 <i>E 4540</i>	-Akra Kara Orman.	40° 55.8' N 24° 24.8' E	FI.W. period 5s fl. 0.1s, ec. 4.9s	108 33	15	Round hut.	
16740 <i>E 4541</i>	-S. breakwater, head.	40° 55.9' N 24° 24.3' E	FI.G. period 2s fl. 0.3s, ec. 1.7s	36 11	4	White hexagonal hut with column, green band; 24.	
16744 <i>E 4542</i>	-N. breakwater, head.	40° 56.1' N 24° 24.4' E	FI.R. period 2s fl. 0.3s, ec. 1.7s	36 11	4	White hexagonal hut with column, red band; 31.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GREECE							
16748 <i>E 4544.4</i>	-W. breakwater, head.	40° 55.7' N 24° 23.7' E	Fl.(2)R. period 8s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	36 11	7	Column with gallery on white hexagonal hut, red band; 23.	Visible 044°-005°.
16749 <i>E 4544.6</i>	Ormos Perigiali, S. mole, head.	40° 56.5' N 24° 25.6' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework with gallery, red band; 18.	
16749.5 <i>E 4544.4</i>	-N. mole, head.	40° 56.5' N 24° 25.6' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework with gallery, green band; 18.	
16750 <i>E 4544.8</i>	Akra Spathi.	40° 56.6' N 24° 28.4' E	Fl.R. period 4s fl. 0.3s, ec. 3.7s	52 16	3	White hexagonal hut with column and gallery, red band; 31.	
16752 <i>E 4545</i>	Nea Karvali, breakwater.	40° 57.0' N 24° 28.9' E	Fl.G. period 4s fl. 1s, ec. 3s	39 12	7	Hexagonal concrete hut with column and gallery, green band.	
16756 <i>E 4545.3</i>	-Nea Karrali, pier, head.	40° 57.3' N 24° 32.5' E	3 F.R.	26 8	3	White metal framework tower on hut.	Lights form inverted "L".
16760 <i>E 4546</i>	Akra Ammodhis.	40° 51.6' N 24° 37.8' E	Fl.(2)W. period 10s fl. 0.3s, ec. 1.4s fl. 0.3s, ec. 8s	30 9	7	Metal framework on white square hut; 22.	Visible 265°-134°.
ORMOS KERAMOTIS:							
16764 <i>E 4546.3</i>	-Akra Keramotis.	40° 51.4' N 24° 41.3' E	Fl.W.R. period 4s fl. 0.4s, ec. 3.6s	20 6	W. R. 6 4	Concrete pyramid; 10.	W. 095°-081°, R.-095°.
16768 <i>E 4546.6</i>	-Pier, head.	40° 51.5' N 24° 42.2' E	Q.R.G.	23 7	2	Metal column on pedestal.	R. 107°-151°, G.-107°.
16772 <i>E 4548</i>	Nisis Thasopoula.	40° 49.5' N 24° 43.0' E	Fl.W.R. period 4.5s fl. 0.3s, ec. 4.2s	85 26	W. R. 6 4	Metal framework tower on pedestal.	R. 237°-260°, W.-102°, obs.-237°.
NISOS THASOS:							
16776 <i>E 4547.8</i>	-Thasos, W. breakwater, head.	40° 47.0' N 24° 42.7' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	26 8	4	Column on white hexagonal hut, green band; 24.	
16780 <i>E 4547.9</i>	--E. breakwater, head.	40° 46.9' N 24° 42.7' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	26 8	4	Column on white hexagonal hut, red band; 24.	
16782 <i>E 4546.8</i>	-Rachoni, fishing harbor, mole, head.	40° 47.0' N 24° 36.8' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework, gallery, green band.	
16782.5 <i>E 4546.9</i>	--Pier, head.	40° 47.0' N 24° 36.8' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal column with gallery on metal framework, red band.	
16784 <i>E 4547</i>	-Akra Prinos.	40° 45.8' N 24° 33.9' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	23 7	7	Metal framework on round hut.	Visible 037°-238°.
16785 <i>E 4547.1</i>	-Sotiras, S. mole, head.	40° 43.8' N 24° 32.8' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework, gallery, metal column, green band.	
16785.5 <i>E 4547.15</i>	--N. mole, head.	40° 43.8' N 24° 32.8' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework, gallery, metal column, red band.	
16786 <i>E 4547.2</i>	-Kallirachi, S. mole, head.	40° 42.7' N 24° 31.9' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework, gallery, metal column, green band.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GREECE							
16786.5 <i>E 4547.25</i>	--N. mole, head.	40° 42.7' N 24° 31.9' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework, gallery, metal column, red band.	
16788 <i>E 4547.5</i>	-Akra Achpas.	40° 38.3' N 24° 30.7' E	Fl.(2)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	46 14	7	Metal framework on white square hut; 18.	
16789 <i>E 4547.4</i>	--Mole, head.	40° 38.7' N 24° 30.8' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal column with gallery on metal framework, green band.	
16790 <i>E 4547.6</i>	-Limenaria, mole, head.	40° 37.5' N 24° 34.5' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	36 11	3	Metal framework with gallery; 20.	
16792 <i>E 4547.7</i>	-Akra Stavros Babouras.	40° 36.0' N 24° 46.0' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	112 34	7	Round hut.	Visible 200°-126°.
16793 <i>E 4549.2</i>	Akra Baloustra, fishing harbor, E. breakwater, head.	40° 56.0' N 24° 58.0' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	20 6	3	White metal framework, green band.	
16794 <i>E 4549.22</i>	-W. breakwater, head.	40° 56.0' N 24° 58.0' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	20 6	3	White metal framework, red band.	
ORMOS VISTONIAS:							
16796 <i>E 4550</i>	-Akra Fanari.	40° 57.5' N 25° 07.8' E	Fl.W. period 8s fl. 1.5s, ec. 6.5s	131 40	6	Metal framework on water tower; 16.	
16800 <i>E 4550.5</i>	-Fanarion, S. breakwater, head.	40° 57.9' N 25° 07.4' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	30 9	3	Metal framework tower with gallery, green band.	
16808 <i>E 4551</i>	-Lagos Entrance Range, front.	41° 00.4' N 25° 07.6' E	F.Y.	16 5	3	Metal column, yellow triangular daymark, point up.	
16812 <i>E 4551.1</i>	---Rear, 180 meters 023°30' from front.	41° 00.6' N 25° 07.7' E	F.Y.	23 7	3	Metal column, yellow triangular daymark, point down	
16816 <i>E 4552</i>	--Outer E. side.	40° 59.4' N 25° 07.4' E	Q.G.	10 3	2	Round hut on pedestal.	
16820 <i>E 4552.2</i>	--Outer W. side.	40° 59.4' N 25° 07.3' E	Q.R.	10 3	2	Round hut on pedestal.	
16824 <i>E 4552.5</i>	--Inner E. side.	41° 00.1' N 25° 07.6' E	Fl.G. period 3s fl. 0.4s, ec. 2.6s	13 4	3	Metal column on pedestal, green band.	
16828 <i>E 4552.6</i>	--Inner W. side.	41° 00.2' N 25° 07.5' E	Fl.R. period 1.5s fl. 0.2s, ec. 1.3s	10 3	3	Metal column on pedestal, red band.	
16832 <i>E 4552.8</i>	Ayios Kharalambos, mole, head.	40° 52.6' N 25° 30.4' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	33 10	3	White metal framework tower, green band; 13.	
16834 <i>E 4553</i>	Limeniskos Makris, W. mole, head.	40° 50.8' N 25° 45.1' E	Fl.R. period 4s fl. 0.6s, ec. 3.4s	23 7	4	Metal column with gallery on metal framework, red band.	
16835 <i>E 4553.2</i>	-E. mole, head.	40° 50.8' N 25° 45.1' E	Fl.G. period 4s fl. 0.6s, ec. 3.4s	23 7	4	Metal column with gallery on metal framework, green band.	
16836 <i>E 4554</i>	Alexandroupolis.	40° 51.0' N 25° 53.0' E	Fl.(3)W. period 15s fl. 0.4s, ec. 2.1s fl. 0.4s, ec. 2.1s fl. 0.4s, ec. 9.6s	102 31	24	White round tower, dwelling attached; 59.	Signal station.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GREECE							
16840 <i>E 4555.2</i>	-N. breakwater, head.	40° 50.5' N 25° 53.1' E	Fl.G. period 3s fl. 0.4s, ec. 2.6s	30 9	3	Column on white hexagonal hut, green band; 23.	<i>Temporarily extinguished (2000).</i> Q.G. 0.8 mile ESE. marks end of breakwater under construction.
16844 <i>E 4555</i>	--S. breakwater.	40° 50.0' N 25° 53.9' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	33 10	6	Metal framework with gallery, red band.	
NISOS SAMOTHRAKI:							
16848 <i>E 4556</i>	-Akra Akrotiri.	40° 29.0' N 25° 27.0' E	Fl.W. period 5s	46 14	10	Iron framework mast with gallery, hut; 33.	Visible 326°-242°.
16852 <i>E 4556.4</i>	-Ormos Kamariotissa, breakwater, head.	40° 29.0' N 25° 28.0' E	Fl.R. period 3s fl. 0.4s, ec. 2.6s	30 9	3	Column on concrete hexagonal hut.	
16856 <i>E 4564</i>	-Bati Burnu.	39° 50.0' N 25° 58.0' E	Fl.(2)W. period 15s fl. 1s, ec. 3s fl. 1s, ec. 10s	105 32	15	White masonry tower; 66.	
16860 <i>E 4556.8</i>	-Zourafa Islet.	40° 28.0' N 25° 50.0' E	Fl.(2)W. period 10s	26 8	8	ISOLATED DANGER BRB, tower, topmark.	

Section 12

Northeastern Aegean Sea, Sea of Marmara, Bulgaria, Romania and Ukraine Including Dardanelles and Bosphorus

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GREECE-TURKEY							
BOZCA ADA (T.):							
16864 <i>E 4568</i>	-Mermer Burnu.	39° 48.0' N 26° 04.8' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	115 35	10	White masonry tower; 30.	
16868 <i>E 4566</i>	-Bozcaada, breakwater, entrance, S. side, head..	39° 50.1' N 26° 04.5' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	39 12	3	White metal tripod; 33.	
16872 <i>E 4566.5</i>	--Entrance, N. side, breakwater, head.	39° 50.2' N 26° 04.6' E	Fl.G. period 3s fl., ec. 2.7s	23 7	5	Concrete pillar; 20.	
16876 <i>E 4565</i>	-Esek Adalari, about 4.4 km. N. of Mermer Burnu.	39° 50.6' N 26° 05.5' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	33 10	8	Concrete tower; 16.	
16884 <i>E 4560</i>	-Tavsan Adasi (T.).	39° 56.2' N 26° 03.5' E	Fl.W.R. period 5s fl. 0.5s, ec. 4.5s	154 47	W. 14 R. 10	White concrete tower.	R. 037°-052°, W.-037°. Reserve light range W8M, R5M.
NISOS LIMNOS (GR.):							
16888 <i>E 4578</i>	-Ormos Moudhrou, Nisis Kombi.	39° 48.0' N 25° 14.0' E	Q.(2)W. period 6s fl. 0.4s, ec. 0.8s fl. 0.4s, ec. 4.4s	200 61	10	Round tower, dwelling.	
16892 <i>E 4580</i>	--Aspros Kavos.	39° 51.0' N 25° 14.2' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	43 13	5	Metal framework on round hut.	
16900 <i>E 4577</i>	-Ormos Kondias, on Akra Lena.	39° 50.8' N 25° 09.8' E	Fl.W. period 3.3s fl. 0.4s, ec. 2.9s	26 8	5	White round hut with metal framework tower; 16.	Visible 040°-243°.
16904 <i>E 4575</i>	-Mirina.	39° 52.0' N 25° 03.0' E	Fl.W. period 6s fl. 1s, ec. 5s	272 83	11	On old masonry structure.	
16908 <i>E 4576.2</i>	--W. breakwater, head.	39° 52.3' N 25° 03.0' E	Q.R.	23 7	3	Concrete column and hut.	
16912 <i>E 4576.6</i>	--S. breakwater, head.	39° 52.0' N 25° 03.0' E	Q.G.	29 9	2	Column on six sided concrete building.	
16916 <i>E 4574</i>	-Akra Mourtzeffios.	39° 59.1' N 25° 02.0' E	Fl.(2)W. period 14s fl. 0.6s, ec. 1.4s fl. 0.6s, ec. 11.4s	194 59	13	Metal pyramid with gallery; 10.	
16920 <i>E 4572</i>	-Akra Plaka.	40° 02.1' N 25° 26.8' E	Fl.(3)W. period 30s fl. 0.1s, ec. 4.9s fl. 0.1s, ec. 4.9s fl. 0.1s, ec. 19.9s	181 55	22	White round tower, dwelling attached; 59.	Visible 053°-018°.
			F.R.	118 36	13	Beacon, same tower.	Visible 301°-346°.
NISOS AYIOS EVSTRATOS (GR.):							
16924 <i>E 4585</i>	-Nisis Ay. Apostoloi.	39° 33.8' N 25° 00.1' E	Fl.W.R. period 5s fl. 0.5s, ec. 4.5s	98 30	W. 10 R. 7	Square hut.	W. 039°-294°, R.-312°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GREECE-TURKEY							
16925 <i>E 4584.5</i>	-Evstratios, mole, head.	39° 32.4' N 24° 59.2' E	Fl.R. period 2s fl. 0.2s, ec. 1.8s	26 8	3	Metal framework with gallery and column; 22.	
16928 <i>E 4584</i>	-Akra Tripiti.	39° 27.8' N 24° 58.8' E	Fl.(2)W. period 10s fl. 0.4s, ec. 1.2s fl. 0.4s, ec. 8s	135 41	8	Metal framework on round hut.	Visible 217°-153°.
IMROZ ADASI (T.):							
16932 <i>E 4559.4</i>	-Kalekoy.	40° 14.0' N 25° 54.0' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	161 49	7	Metal framework tower, concrete base; 30.	
16936 <i>E 4559.7</i>	--S. breakwater, head.	40° 13.9' N 25° 56.9' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	33 10	10	Concrete tower; 20.	
16936.5 <i>E 4559.6</i>	--N. breakwater.	40° 13.8' N 25° 57.4' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7	10	Yellow framework tower.	
16937 <i>E 4559.8</i>	--Inner breakwater.	40° 13.6' N 25° 57.1' E	F.R.		3		
16940 <i>E 4559</i>	-Aydiniciik Burnu.	40° 09.6' N 26° 00.5' E	Fl.(3)W. period 20s fl. 1s, ec. 2.5s fl. 1s, ec. 2.5s fl. 1s, ec. 12s	75 23	12	White iron tower; 10.	
16940.5 <i>E 4559.2</i>	-Ugurlu Iskelesi, breakwater.	40° 07.0' N 25° 42.0' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7	5	White pillar; 16.	
16941 <i>E 4558.5</i>	-Kabatepe Limani, N. breakwater, head.	40° 12.3' N 26° 15.9' E	Fl.R. period 5s	33 10	6		
16942 <i>E 4558.6</i>	--S. breakwater, head.	40° 12.2' N 26° 16.0' E	Fl.G. period 5s	30 9	6		
SAROS KORFEZI:							
16944 <i>E 4558</i>	-Buyuk Kemikli Burnu.	40° 19.0' N 26° 12.9' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	46 14	10	White metal framework tower; 33.	
16948 <i>E 4557.6</i>	Bakla Burnu, Saros Korfezi.	40° 33.5' N 26° 44.9' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	46 14	14	White metal framework tower; 20.	
TURKEY							
DARDANELLES (CANAKKALE BOGAZI):							
16952 <i>E 4569</i>	-Besige Burnu.	39° 54.9' N 26° 09.0' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	82 25	15	Metal pylon.	
16954 <i>E 4568.2</i>	-Odunluk Iskele, jetty.	39° 47.0' N 26° 09.5' E	Fl.R. period 5s	23 7	5		
16956 <i>E 4850</i>	-Mehmetcik Burnu.	40° 02.7' N 26° 10.5' E	Fl.W.R. period 5s fl. 0.5s, ec. 4.5s	164 50	W. 19 R. 12	White masonry tower; 82.	R. 350°-010°, W.-350°. Radar reflector.
16960 <i>E 4852.4</i>	-Seddulbahir, entrance, N. side.	40° 02.6' N 26° 11.5' E	F.G.	20 6	3	Framework tower.	
16964 <i>E 4852.8</i>	--Entrance, S. side.	40° 02.6' N 26° 11.5' E	F.R.	20 6	3	Framework tower.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TURKEY							
16968 E 4852.3	--Seddulbahir.	40° 02.5' N 26° 11.5' E	Fl.W. period 3s	20 6	5	Concrete tower; 13.	
16972 E 4852.6	--N. mole.	40° 02.6' N 26° 11.6' E	Fl.G. period 3s	20 6	3	Concrete column.	
16976 E 4852	-Anit (Morto) Limani.	40° 02.6' N 26° 12.1' E	Fl.(4)R. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 8.5s	16 5	5	White concrete tower; 16.	Radar reflector.
16980 E 4848	-Kumkale Burnu, entrance, S. side.	40° 00.4' N 26° 11.9' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	39 12	18	White stone tower; 13.	
16984 E 4853	-Karanfil Burnu.	40° 06.3' N 26° 19.6' E	Fl.(2)R. period 12s	42 13	10	Concrete column; 33.	
16988 E 4854	-Kanlidere Burnu.	40° 05.7' N 26° 21.9' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	33 10	10	White masonry tower; 33.	
16990 E 4855	-Sarisiglar.	40° 08.1' N 26° 23.8' E	V.Q.(9)W. period 10s	26 8	5	W. CARDINAL YBY, beacon, topmark.	
16992 E 4856	-Kilitbahir.	40° 08.6' N 26° 22.9' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7	15	White metal column; 13.	
16996 E 4857	-Canakkale Kalesi (Cimenlik).	40° 08.8' N 26° 23.8' E	Fl.R.G. period 5s	49 15	10	White iron framework structure; 46.	R. 341°-027°, G.-341°. R. Lts on mast 1.5M NNE.
16997 E 4857.2	Tali Mendirek.	40° 09.0' N 26° 24.0' E	F.G.	23 7	3	Concrete tower; 13.	
16998 E 4857.3	-Yat Limani.	40° 09.2' N 26° 24.3' E	Fl.G. period 3s	20 6	3	Metal pylon; 13.	
17000 E 4862	-Nara Kalessi, Narrows, NE. side.	40° 11.8' N 26° 24.0' E	Fl.(2)G. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	26 8	12	White octagonal concrete tower; 20.	F.R. on jetty 600 meters SE.
17004 E 4858	-Eceabat Range, front.	40° 11.2' N 26° 21.1' E	Oc.W. period 2.5s lt. 2s, ec. 0.5s	108 33	6	White framework tower, diamond daymark; 36.	
17008 E 4858.1	--Rear, 132 meters 242° from front.	40° 11.1' N 26° 21.0' E	Q.W.	141 43	6	Framework tower, white diamond daymark; 43.	
17012 E 4859	-Eceabat, pier, head.	40° 11.1' N 26° 21.8' E	F.R.	23 7	2	Gray framework tower; 10.	
17016 E 4859.2	--N. breakwater, head.	40° 11.1' N 26° 21.7' E	F.R.	20 6	2	Gray framework tower; 10.	
17020 E 4860	-Poyraz Burnu.	40° 12.1' N 26° 22.6' E	Fl.(2)R. period 5s fl. 0.3s, ec. 1s fl. 0.3s, ec. 3.4s	23 7	10	White masonry tower; 20.	
17024 E 4866	-Kavakalti Deresi, shoal, head.	40° 13.3' N 26° 25.4' E	Fl.(3)R. period 15s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 8s	20 6	5	White triangular concrete tower; 15.	
17028 E 4868	-Uzun Burnu.	40° 16.1' N 26° 29.5' E	Fl.(2)R. period 5s	36 11	12	White rectangular tower.	
17032 E 4870	-Gocuk Burnu, strait, E. side.	40° 16.7' N 26° 34.2' E	Fl.W. period 5s fl. 0.3s, ec. 4.7s	38 12	10	White metal mast on white square tower; 30.	F.R. marks head of jetty 1.3 miles SSW.
17036 E 4872	-Karakova Burnu.	40° 19.2' N 26° 35.2' E	Fl.R. period 6s fl. 0.3s, ec. 5.7s	33 10	10	White metal column; 32.	

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TURKEY							
17040 <i>E 4874</i>	-Galata Burnu, on shoal.	40° 21.5' N 26° 37.6' E	Fl.(2)R. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	13 4	5	White concrete tower; 11.	
17044 <i>E 4876</i>	-Cardak Burnu, on low sandy point.	40° 23.1' N 26° 42.6' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	38 12	7	White mast on house; 30.	
17046 <i>E 4876.5</i>	-Cardak Banki.	40° 23.6' N 26° 42.4' E	V.Q.(9)W. period 10s	16 5	5	W. CARDINAL YBY, beacon, topmark.	
17048 <i>E 4878</i>	-Gelibolu.	40° 24.6' N 26° 41.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	111 34	15	White masonry tower; 30.	Siren: 2 bl. ev. 30s.
SEA OF MARMARA (MARMARA DENIZI):							
17052 <i>E 4879</i>	-Zincirbozan Banki, Sea of Marmara, W. entrance.	40° 25.3' N 26° 45.3' E	Fl.W. period 10s fl. 1s, ec. 9s	34 10	7	White concrete tower; 34.	Radar reflector.
17054 <i>E 4879.5</i>	-Doganaslan Bank.	40° 29.8' N 26° 51.5' E	Q.(6)+L.Fl.W. period 15s	26 8	5	S. CARDINAL YB, beacon, topmark.	
17056 <i>E 4880</i>	-Ince Burnu.	40° 33.4' N 26° 59.7' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	105 32	10	White masonry structure; 34.	
17060 <i>E 4896</i>	-Hoskoy.	40° 42.4' N 27° 18.5' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	164 50	19	White concrete tower; 72.	
17064 <i>E 4896.5</i>	-Tekirdag, on pier.	40° 58.4' N 27° 31.0' E	F.R.		3		F.R. and F.G. lights mark inner mole heads.
17068 <i>E 4897</i>	-Orencik, Venedik Tasi.	40° 57.7' N 27° 53.8' E	Fl.R. period 6s fl. 1s, ec. 5s	30 9	10	White concrete tower on concrete base; 16.	
17072 <i>E 4898</i>	-Marmaraereglisi.	40° 57.9' N 27° 58.2' E	Fl.W. period 10s fl. 0.4s, ec. 9.6s	173 53	16	White masonry tower; 20.	2 Oc.R. (vert.) 16-20M lights shown from radio mast about 7.9 km. W.
17076 <i>E 4899</i>	--On shoal spit, about 0.65 km. 034° from Marmaraereglisi.	40° 58.2' N 27° 57.9' E	Fl.(3)W. period 10s fl. 0.3s, ec. 9.7s	20 6	8	W. CARDINAL YBY, beacon, topmark; 16.	
17078 <i>E 4899.1</i>	-Botas Dogalgaz Terminal.	40° 59.5' N 27° 59.2' E	F.R.				8 F.R. mark terminal jetties.
17080 <i>E 4899.3</i>	-Silivri, center breakwater.	41° 04.3' N 28° 14.3' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	20 6	5	Concrete tower; 16.	
17081 <i>E 4899.4</i>	--Auxiliary breakwater.	41° 04.5' N 28° 14.4' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	20 6	5	Concrete column; 16.	
17092 <i>E 4899.6</i>	-Buyukcekmece Koyu, Degirmen Burnu.	40° 57.7' N 28° 37.3' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	65 20	10	White concrete tower; 26.	
17100 <i>E 4901</i>	-Yesilkoy, AVIATION LIGHT.	40° 58.7' N 28° 49.3' E	Al.Fl.W.G. period 7.5s	160 49	10	Control tower; 70.	Occasional.
17104 <i>E 4902</i>	-Yesilkoy Burnu.	40° 57.6' N 28° 50.3' E	Fl.W. period 10s	75 23	15	White masonry tower; 49.	Siren: 1 bl. ev. 30s. Signal station.
17108 <i>E 4903.4</i>	-Kumkapi Barinak, pier, head.	41° 00.1' N 28° 58.0' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	33 10	6	Concrete tower.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TURKEY							
17112 E 4880.6	--Ince Burun, W. entrance point.	40° 28.2' N 27° 17.4' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	177 54	12	White stone tower; 36.	
17116 E 4881.6	--Tavsan Adasi.	40° 22.6' N 27° 47.3' E	Fl.W. period 10s fl. 1s, ec. 9s	181 55	8	White metal framework tower; 19.	
17120 E 4881.7	--Erdek, breakwater, head.	40° 23.2' N 27° 48.3' E	F.W.	10 3	3	Concrete tower.	F.R. on jetty head 350m NW, 500m NNE.
17124	--N. pier, head.	40° 24.0' N 27° 48.0' E	F.R.				
17128	--SW. pier, head.	40° 23.2' N 27° 48.3' E	F.R.				
17132 E 4881	--Kale Burnu.	40° 24.6' N 27° 20.4' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	75 23	8	White metal tripod; 26.	
17134 E 4881.3	--Karabiga, N. breakwater, head.	40° 24.1' N 27° 18.6' E	F.G.	23 7	5	Concrete column; 10.	F.R. 5M shown from head of S. breakwater.
	--Marmara Adasi:						
17136 E 4894	--Hayirsiz Ada, N. summit.	40° 38.7' N 27° 29.0' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	366 112	12	White iron framework tower; 26.	Siren: 3 bl. ev. 32s.
17144 E 4892.4	--Domuz Burnu.	40° 40.1' N 27° 38.0' E	Fl.W. period 10s fl. 1s, ec. 9s	82 25	9	White skeleton tower; 13.	
17148 E 4892.6	--Saraylar, shelter mole, head.	40° 39.5' N 27° 39.7' E	Fl.G. period 3s	23 7	4	Concrete tower; 23.	
17152 E 4892	--Asmali (Fener Adasi).	40° 38.0' N 27° 45.7' E	Fl.(3)W. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	131 40	12	White metal framework tower; 29.	
17153 E 4892.8	--Marmara, breakwater, head.	40° 35.0' N 27° 33.6' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	33 10	8	Concrete tower; 26.	
17153.5 E 4892.9	---Mole, head.	40° 35.0' N 27° 33.7' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	33 10	8	Concrete tower; 13.	
17154 E 4893.5	--Balikci Limani.	40° 36.8' N 27° 42.4' E	F.G.	16 5	3	Iron column; 10.	
17156 E 4893	--Ada Burnu.	40° 34.6' N 27° 34.6' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	49 15	5	White metal tower; 20.	
	--Pasalimani Adasi:						
17160 E 4882	--Ekinlik, Avsar Adasi, off W. side.	40° 30.9' N 27° 29.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	60 18	8	White concrete tower; 33.	
17164 E 4884	--Balyos Burnu, Kapidagi Yarimadasi, W. point.	40° 29.7' N 27° 41.2' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	125 38	10	White metal framework tower on white house; 36.	
17168 E 4885	--Tuzla Burnu, E. point.	40° 27.8' N 27° 40.4' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	72 22	5	White framework tower, concrete base; 23.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TURKEY							
-Bandirma Korfezi:							
17172 <i>E 4890</i>	--Kapsul Burnu.	40° 28.7' N 28° 02.0' E	Fl.(2)R. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	115 35	5	White concrete tower, dwelling; 31.	
17176 <i>E 4888</i>	---W. mole, head.	40° 21.4' N 27° 57.5' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	33 10	6	Stone tower.	
17180 <i>E 4887</i>	---Head of E. breakwater.	40° 21.6' N 27° 57.6' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	33 10	10	Concrete tower; 26.	
17184 <i>E 4889</i>	---S. mole, head.	40° 21.3' N 27° 58.1' E	2 F.G. (vert.)	21 6	2	White metal post; 10.	
17188 <i>E 4886</i>	--Mola Adalari, Fener Adasi.	40° 27.7' N 28° 04.2' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	141 43	10	White mast on dwelling; 39.	Obscured 256°-259°, 296°-303°, and 311°30'-028°.
17192 <i>E 4899.8</i>	--Marti Burnu, NW.	40° 34.0' N 28° 31.3' E	Fl.W. period 10s fl. 1s, ec. 9s	361 110	10	White concrete tower; 16.	
17196 <i>E 4899.9</i>	--Degirmen Burnu.	40° 33.5' N 28° 33.0' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	82 25	6	Stone tower; 16.	
17200 <i>E 4900.8</i>	-Karabacey (Sazli Kohve Burnu).	40° 23.5' N 28° 31.1' E	Fl.(3)W. period 15s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 10s	42 13	6	White pylon; 39.	
17204 <i>E 4900</i>	-Boz Burnu, W. extremity.	40° 32.0' N 28° 47.1' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	249 76	10	White stone tower, dwelling; 29.	Siren: 2 bl. ev. 30s.
17208 <i>E 4900.2</i>	-Arnavut Burnu.	40° 23.2' N 28° 52.0' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	98 30	9	White metal framework tower; 20.	
17212 <i>E 4900.4</i>	-Mudanya, mole, at elbow.	40° 22.6' N 28° 53.5' E	F.R.		2	Derrick.	
17216 <i>E 4900.6</i>	-Gemlik Korfezi, Tuzla Burnu.	40° 25.2' N 29° 05.7' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	46 14	8	White metal framework tower; 39.	
17220 <i>E 4900.7</i>	-Gemlik, wharf, head.	40° 26.0' N 29° 09.1' E	F.R.	39 12	3	Gray framework tower.	
17224 <i>E 4920</i>	-Tuzla Korfezi, Hayirsiz Ada.	40° 47.3' N 29° 15.7' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	59 18	5	Iron framework structure; 20.	
17228 <i>E 4921</i>	--Cayirova, pier.	40° 48.1' N 29° 20.5' E	F.R.	72 22	2	Metal framework tower; 66.	
-Izmit Korfezi:							
17232 <i>E 4922</i>	--Yelkenkaya Burnu.	40° 45.3' N 29° 21.2' E	Fl.W. period 15s fl. 1.5s, ec. 13.5s	66 20	18	White round stone tower; 30.	
17236 <i>E 4899.96</i>	--Sivrikaya Burnu, entrance, S. side..	40° 38.8' N 28° 00.5' E	Fl.W. period 10s fl. 1s, ec. 9s	65 20	9	White metal column; 33.	
17238 <i>E 4899.94</i>	--Cinarcik, on mole.	40° 39.1' N 29° 07.8' E	F.G.	30 9	3	Concrete tower.	
17240 <i>E 4931</i>	--Yalova (Samanli), W. mole, head.	40° 39.7' N 29° 14.7' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	30 9	8	White round concrete tower.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TURKEY							
17244 <i>E 4931.2</i>	---E. mole, head.	40° 39.7' N 29° 14.7' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	30 9	8	White round concrete tower.	
17248 <i>E 4923.7</i>	---Quay, head.	40° 39.7' N 29° 16.2' E	F.R.				
17252 <i>E 4923</i>	-Aksa, Dolphin.	40° 42.0' N 29° 24.6' E	F.R.			Platform.	
17256 <i>E 4924</i>	-Dil Burnu, S. entrance point.	40° 44.4' N 29° 30.9' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	39 12	10	White metal framework tower; 30.	
17258 <i>E 4926.2</i>	--Diliskelesi, jetty, head.	40° 45.9' N 29° 32.0' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	62 19	3	Concrete column.	
17260 <i>E 4927</i>	--Kiler Burnu, oil terminal platform, W. dolphin.	40° 44.6' N 29° 45.3' E	3 F.W.	23 7	2	Derrick.	Siren: 2 bl. ev. 60s.
17264 <i>E 4927.4</i>	---E. dolphin.	40° 44.5' N 29° 45.6' E	2 F.W.	23 7	2	Derrick.	
17266 <i>E 7640</i>	--Platform.	40° 44.4' N 29° 46.6' E	Fl.R. period 4s	26 8	5		
17268 <i>E 4926</i>	--Kava Burnu, N. entrance point.	40° 46.0' N 29° 31.0' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	52 16	5	Metal tripod on concrete base; 23.	Nautophone: 3 bl. ev. 30s (bl. 2s, si. 6s, bl. 2s, si. 6s, bl. 2s, si. 12s).
17272 <i>E 4928</i>	--Zeytun Burnu, extremity of point.	40° 44.4' N 29° 46.8' E	Fl.(2)R. period 5s fl. 0.3s, ec. 1s fl. 0.3s, ec. 3.4s	33 10	8	White metal mast and dwelling; 33.	F.R. on water tower 1M N.
17274 <i>E 7641</i>	--Platform.	40° 44.3' N 29° 47.0' E	Fl.W. period 4s	26 8	5		
17274.5 <i>E 7642</i>	--Platform.	40° 44.3' N 29° 47.4' E	F.R.				
17280 <i>E 4929</i>	--Golcuk Burnu.	40° 43.8' N 29° 48.8' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	29 9	8	Metal frame tower, white concrete base; 29.	Fl.R. lights are shown on pier 700 meters W.
17288 <i>E 4917.4</i>	-Heybeli, S. mole, head.	40° 52.4' N 29° 06.6' E	F.R.	16 5	2	White round concrete tower; 7.	
17292 <i>E 4917.2</i>	--N. mole, head.	40° 52.4' N 29° 06.6' E	F.G.	16 5	2	White round concrete tower; 7.	
17292.5 <i>E 4916.1</i>	-Pendik Burnu, breakwater, head.	40° 52.1' N 29° 14.4' E	Fl.G.		5		
17293 <i>E 4916.2</i>	-Pendik, breakwater, head.	40° 51.6' N 29° 15.2' E	Fl.G. period 5s fl. 1s, ec. 4s	20 6	8	Concrete tower; 33.	
17294 <i>E 4916.3</i>	-Aydinbey Yarimadası, S. head.	40° 51.6' N 29° 15.4' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7	4	Iron framework structure.	
17295 <i>E 4916.4</i>	-Aydinli Limani.	40° 51.0' N 29° 16.3' E	Fl.(2)G. period 5s	26 8	5	Concrete pillar; 26.	
17296 <i>E 4917.5</i>	--Boat harbor, mole, head.	40° 52.9' N 29° 06.1' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	20 6	7	Concrete tower; 10.	
17300 <i>E 4916.6</i>	-Balıkcı Adası.	40° 49.2' N 29° 06.8' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	102 31	9	White metal framework tower; 20.	
17304 <i>E 4915</i>	-Dilek Kayağı.	40° 54.9' N 29° 05.4' E	Q.(6)+L.Fl.W. period 15s	20 6	8	S. CARDINAL YB, beacon, topmark.	Electric lights mark power cable between Chamasir Burnu, Prinkipo, and Halki.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TURKEY							
17308 <i>E 4916</i>	-Buyukada Kanal, Maltepe, pier, head.	40° 54.8' N 29° 08.0' E	F.R.	23 7	2	Column; 13.	
17312 <i>E 4917.6</i>	-Burgaz Adasi.	40° 52.8' N 29° 04.3' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	13 4	3	Concrete tower; 10.	
17316 <i>E 4918</i>	-Sivriada.	40° 52.6' N 28° 58.2' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	272 83	13	White conical tower, concrete base; 10.	
17320 <i>E 4914</i>	-Yildiz Kayaligi.	40° 55.2' N 29° 05.3' E	V.Q.(9)W. period 10s	13 4	8	W. CARDINAL YBY, beacon, topmark.	
17324 <i>E 4913</i>	-Bostanci, mole, head.	40° 57.1' N 29° 05.6' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	16 5	5	Concrete tower ; 10.	
17328 <i>E 4910</i>	-Fener Burnu.	40° 58.2' N 29° 01.9' E	Fl.(2)W. period 12s fl. 1.5s, ec. 2s fl. 1.5s, ec. 7s	82 25	15	White round stone tower; 65.	Siren: 1 bl. ev. 60s.
17336 <i>E 4912</i>	Oreke tasi.	40° 58.0' N 29° 01.8' E	Fl.(2)W. period 5s fl. 0.3s, ec. 0.7s fl. 0.3s, ec. 3.7s	16 5	3	White concrete column, masonry base; 16.	
BOSPORUS:							
17340 <i>E 4903</i>	-Ahirkapi Burnu (Istanbul).	41° 00.4' N 28° 59.1' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	118 36	16	White tower, dwelling; 95.	Siren: 2 bl. ev. 30s.
17344 <i>E 4906</i>	-Haydarpasa, inner detached breakwater, NW. extremity.	40° 59.9' N 29° 00.8' E	F.G.	23 7	3	White masonry tower; 11.	F.R. shown from NW. corner of passenger quay.
17348 <i>E 4906.2</i>	--SE. extremity.	40° 59.7' N 29° 01.1' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	46 14	8	White concrete tower; 39.	Bell: 1 stroke ev. 6s.
17352 <i>E 4904</i>	--Outer detached breakwater, NW. extremity.	41° 00.5' N 29° 00.2' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	49 15	8	White concrete tower; 26.	Nautophone: 1 bl. ev. 6s.
17356 <i>E 4904.2</i>	---SE. extremity.	40° 59.8' N 29° 00.6' E	F.R.	23 7	3	White concrete tower; 11.	
17360 <i>E 4904.6</i>	Kadikoy, breakwater, head.	40° 59.6' N 29° 00.8' E	Iso.W. period 4s	36 11	13	White concrete pillar.	
17364 <i>E 4907</i>	--Harem Vapur Iskele, S. breakwater, head.	41° 00.7' N 29° 00.4' E	Fl.(2)G. period 5s fl. 0.4s, ec. 0.6s fl. 0.4s, ec. 3.6s	23 7	3	White concrete tower; 10.	
17368 <i>E 4907.2</i>	---N. breakwater, head.	41° 00.8' N 29° 00.6' E	Fl.(2)R. period 5s fl. 0.4s, ec. 0.6s fl. 0.4s, ec. 3.6s	23 7	3	White concrete tower; 10.	
17372 <i>E 4903.8</i>	-Leander Tower (Kizkulezi), strait, E. side.	41° 01.3' N 29° 00.3' E	Fl.W.R. period 3s fl. 0.3s, ec. 2.7s	30 9	W. 14 R. 11	Tripod on white base; 29.	W. 000°-030°, R.-000°. Lights mark power cable between Kizkulezi and Saray Burnu. Navigation control station.
17376 <i>E 4936.4</i>	-Bridge center.	41° 02.8' N 29° 02.1' E	Q.W.	210 64			R Lts mark shore towers.
17380 <i>E 4936.5</i>	-Channel, NW. side.	41° 02.7' N 29° 01.9' E	Q.Y.	210 64			
17384 <i>E 4936.6</i>	-Channel, SE. side.	41° 02.6' N 29° 02.1' E	Q.Y.	210 64			

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TURKEY							
17388 <i>E 4903.7</i>	-Salipazari Rihimi.	41° 01.7' N 28° 59.3' E	Fl.(3)G. period 12s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 5s	42 13	8	Metal derrick.	
17392 <i>E 4937</i>	-Beylerbeyi.	41° 02.7' N 29° 02.5' E	Fl.(2)R. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	33 10	9	White metal post on palace wall; 3.	
17396 <i>E 4937.4</i>	-Defterdar Burnu.	41° 03.0' N 29° 02.0' E	Fl.(2)G. period 12s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9s	49 15	5	White metal framework tower; 39.	
17400 <i>E 4938.3</i>	-Cengelkoy.	41° 03.3' N 29° 03.1' E	Fl.(3)R. period 15s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 8s	43 13	6	White metal framework tower; 49.	
17404 <i>E 4938</i>	-Kurucesme, on Duimi Banka, strait, W. side.	41° 03.4' N 29° 02.6' E	Fl.(3)G. period 15s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 8s	23 7	6	Black triangle on black metal tripod, white bands; 23.	
17408 <i>E 4940</i>	-Arnavutkoy.	41° 04.1' N 29° 02.8' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	36 11	5	White metal mast; 30.	
17412 <i>E 4944</i>	-Kandilli Burnu, strait, E. side.	41° 04.4' N 29° 03.3' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	88 27	12	White metal column; 30.	Navigation control station. 2 Fl.R. on radio mast 3.3 miles SE.
17416 <i>E 4941</i>	-Bebek, bank. N. extremity.	41° 04.7' N 29° 02.9' E	Fl.(2)G. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	16 5	5	Black stone pyramid; 15.	Fl R 3s and Fl G 3s mark boat channel into Bebek.
17420 <i>E 4946</i>	-Rumelihisari, on wall of fortress, strait, W. side.	41° 05.0' N 29° 03.4' E	Fl.(3)G. period 15s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 8s	23 7	8	White metal framework structure; 16.	
17422 <i>E 4946.2</i>	-Fatih Sultan Mehmet Bridge, center.	41° 05.5' N 29° 03.7' E	Oc.Y. period 6s	222 68			Fl.R. Lts mark shore towers.
17422.4 <i>E 4946.4</i>	--Channel, W. side.	41° 05.5' N 29° 03.5' E	Oc.Y. period 6s	220 67			
17422.6 <i>E 4946.6</i>	--Channel, E. side.	41° 05.5' N 29° 03.8' E	Oc.Y. period 6s	220 67			
17424 <i>E 4947</i>	-Balta Limani.	41° 06.0' N 29° 03.3' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	39 12	5	White metal pillar; 33.	
17428 <i>E 4948</i>	-Kanlica Burnu, strait, E. side.	41° 06.2' N 29° 04.0' E	Fl.(2)R. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	92 28	8	White iron column; 36.	
17432 <i>E 4949.4</i>	-Pasabahce, near factory.	41° 07.0' N 29° 05.4' E	Fl.(3)R. period 15s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 8s	46 14	9	White iron tower; 39.	
17436 <i>E 4949</i>	-Istinye.	41° 06.8' N 29° 03.7' E	Fl.(2)G. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	36 11	9	White tower, green bands; 33.	
17438 <i>E 4949.6</i>	-Yenikoy.	41° 07.4' N 29° 04.4' E	Q.(3)W. period 10s	20 6	6	E. CARDINAL BYB, concrete column, topmark.	

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TURKEY							
17444 <i>E 4949.5</i>	-Incirkoy.	41° 07.7' N 29° 05.8' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	52 16	8	Metal pole.	
17452 <i>E 4950</i>	-Kirec Burnu.	41° 08.9' N 29° 02.8' E	Fl.(3)G. period 15s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 8s	33 10	5	White metal pillar; 26.	
17456 <i>E 4949.7</i>	-Selvi Burnu, breakwater, head.	41° 08.6' N 29° 04.3' E	Fl.(2)R. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	43 13	8	Framework tower; 33.	
17460 <i>E 4949.8</i>	--Jetty extension.	41° 08.9' N 28° 04.4' E	F.G.	23 7		White concrete column on pedestal.	
17468 <i>E 4952</i>	-Buyukdere.	41° 09.7' N 29° 02.9' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	39 12	9	White tower; 26.	
17472 <i>E 4953.2</i>	-Overhead cable, E. head.	41° 10.1' N 29° 05.2' E	2 Fl.R. period 2s	817 249	11	Red and white framework tower; 407.	
17476 <i>E 4953</i>	--W. head.	41° 10.6' N 29° 04.2' E	2 Fl.R. period 2s	797 243	11	Red and white framework tower; 407.	
17480 <i>E 4954</i>	-Kavak Burnu, in fort.	41° 10.8' N 29° 05.2' E	Fl.(3)R. period 15s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 8s	52 16	5	White column on fort; 16.	Signal station.
17484 <i>E 4955</i>	-Dikili Tas.	41° 11.0' N 29° 04.8' E	Fl.(2)G. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	26 8	6	White concrete tower; 23.	
17488 <i>E 4955.4</i>	-Cali Burnu.	41° 12.5' N 29° 06.4' E	Fl.(3)G. period 15s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 8s	108 33	5	White iron tower; 20.	
17492 <i>E 4955.2</i>	-Fil Burnu, on extremity of point.	41° 12.1' N 29° 07.1' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	246 75	6	Metal framework tripod; 20.	
17496 <i>E 4956</i>	-Rumeli Burnu.	41° 14.1' N 29° 06.8' E	Fl.(2)W. period 12s fl. 1s, ec. 3s fl. 1s, ec. 7s	190 58	18	White round stone tower; 98.	Nauphone: 1 bl. ev. 20s (bl. 4s, si. 16s).
17500 <i>E 4956.2</i>	-Large breakwater, head.	41° 13.8' N 29° 06.9' E	F.G.	29 9	5	Concrete tower; 20.	
17504 <i>E 4956.4</i>	-Small breakwater, head.	41° 13.8' N 29° 06.8' E	F.R.	23 7	5	Concrete tower; 16.	
17508 <i>E 4958</i>	-Anadolu.	41° 13.0' N 29° 09.1' E	L.Fl.W. period 20s fl. 2s, ec. 18s	246 75	20	White stone tower and dwelling; 66.	Signal station.
	-RACON		B(---)				
17512 <i>E 4960</i>	-Yom Burnu FOG SIGNAL.	41° 13.3' N 29° 10.2' E					Siren: 2 bl. ev. 20s.
17516 <i>E 4962</i>	Dalyan Burnu, at extremity.	41° 15.5' N 29° 02.3' E	Fl.(3)W.R. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	43 13	10	White framework tower; 36.	R. 160°-190°, W. elsewhere.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TURKEY-BLACK SEA							
17520 <i>E 4964</i>	Karaburnu.	41° 21.0' N 28° 41.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	177 54	15	White stone tower, dwelling; 29.	
17524 <i>E 4965</i>	Kiyikoy.	41° 38.0' N 28° 06.0' E	Fl.W. period 10s	105 32	12	White framework tower; 33.	
17525 <i>E 4965.1</i>	-Main breakwater, head.	41° 37.9' N 28° 06.1' E	Fl.G. period 5s fl. 1s, ec. 4s	23 7	5	Concrete tower; 16.	
17525.5 <i>E 4965.2</i>	-Secondary breakwater, head.	41° 37.9' N 28° 06.1' E	Fl.R. period 5s fl. 1s, ec. 4s	23 7	5	Concrete tower; 13.	
17528 <i>E 4966</i>	Igneada Burnu.	41° 53.2' N 28° 03.5' E	Fl.(2)W. period 5s fl. 0.3s, ec. 1s fl. 0.3s, ec. 3.4s	144 44	20	White masonry tower, dwelling; 26.	
17532 <i>E 4966.4</i>	-E. breakwater, head.	41° 53.3' N 28° 01.3' E	F.G.	52 16	4	White concrete tower; 29.	
17536 <i>E 4966.6</i>	-W. breakwater, head.	41° 53.2' N 28° 01.2' E	Fl.W. period 3s	52 16	8	White concrete tower; 39.	
BULGARIA							
17540 <i>E 4968</i>	Akhtopol.	42° 06.1' N 27° 57.1' E	Q.(6)+L.Fl.W. period 15s	49 15	5	S. CARDINAL YB, tower; 36.	
17544 <i>E 4970</i>	Michurin (Tzarevo), on rock.	42° 10.1' N 27° 52.2' E	Q.W.	39 12	4	N. CARDINAL BY, tower; 33.	
17548 <i>E 4971</i>	-Breakwater, head.	42° 10.3' N 27° 51.7' E	Iso.G. period 4s	39 12	2	White round tower; 30.	
17550 <i>E 4971.5</i>	-Main Light.	42° 10.2' N 27° 51.2' E	L.Fl.W. period 7s fl. 3s, ec. 4s	134 41	9	Dwelling; 66.	
17552 <i>E 4972</i>	Primorsko, pier, head.	42° 16.0' N 27° 45.5' E	L.Fl.W. period 5s fl. 2s, ec. 3s	26 8	6	White round tower; 16.	
17556 <i>E 4974</i>	Maslen Nos.	42° 18.5' N 27° 47.7' E	Fl.(3)W. period 17.2s fl. 0.4s, ec. 4s fl. 0.4s, ec. 4s fl. 0.4s, ec. 8s	123 37	17	White stone tower; 23.	Radiobeacon.
BURGASKI ZALIV:							
17564 <i>E 4976</i>	-Sveti Ivan.	42° 26.3' N 27° 41.6' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	144 44	18	White round concrete tower, dwelling; 43.	Horn: 4 bl. ev. 30s.
17572 <i>E 4980</i>	-Ostrov Bolshevik.	42° 29.2' N 27° 33.3' E	L.Fl.W.R. period 8s fl. 2s, ec. 6s	71 22	W. 15 R. 8	White round concrete tower; 39.	R. 272°-312°, W.-272°.
17576 <i>E 4981</i>	-Point Chu Kalya.	42° 27.5' N 27° 32.5' E	F.R.			White tower with red bands.	
-Burgas:							
17580 <i>E 4984</i>	--E. breakwater, head.	42° 28.9' N 27° 29.1' E	Fl.W. period 3s fl. 1s, ec. 2s	79 24	14	White round concrete tower, red bands; 46.	Visible 253°-153°. Nautophone: Mo.(B) ev. 30s.
17584 <i>E 4986</i>	--Arm extending W. from E. breakwater.	42° 29.1' N 27° 29.1' E	Iso.G. period 4s	33 10	2	White tower; 23.	Visible 333°-213°.

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BULGARIA							
17588 <i>E 4988</i>	--W. breakwater, E. head.	42° 29.1' N 27° 28.9' E	Iso.R. period 4s	33 10	2	White tower; 23.	
17592 <i>E 4989</i>	--Jetty, N. head..	42° 27.6' N 27° 27.3' E	L.FI.G. period 6s fl. 2s, ec. 4s	20 6	3	Round metal tower, green band; 13.	
17596 <i>E 4989.2</i>	--Jetty, S. head.	42° 27.5' N 27° 27.3' E	L.FI.R. period 6s fl. 2s, ec. 4s	20 6	3	Round metal tower, red band; 13.	
17600 <i>E 4981.3</i>	--Jetty extension.	42° 27.3' N 27° 32.0' E	L.FI.R. period 20s fl. 4s, ec. 16s	23 7	5	White platform.	
17604 <i>E 4990</i>	Pomorie, SE. reef.	42° 33.1' N 27° 39.8' E	Q.(3)W. period 10s	29 9	6	White stone tower; 29.	
17608 <i>E 4994</i>	Nesebur.	42° 39.3' N 27° 43.8' E	FI.R.G. period 8s	33 10	R. G. 4 2	White framework tower; 20.	R. 240°-285°, G.-240°.
17612 <i>E 4996</i>	Nos Emine.	42° 42.2' N 27° 54.1' E	FI.W. period 6s fl. 1.5s, ec. 4.5s	210 64	20	Tower on white building; 30.	Aeromarine light. Signal station. Radiobeacon.
17616 <i>E 4998</i>	Sveti Athanas.	42° 51.3' N 27° 53.0' E	Oc.R. period 7s lt. 4s, ec. 3s	125 38	12	White metal framework on stone tower; 33.	
VARNENSKI ZALIV:							
17624 <i>E 5000</i>	-Nos Galata.	43° 10.3' N 27° 57.8' E	FI.(3)W. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 2s fl. 0.5s, ec. 10s	204 62	25	White round concrete tower, dwelling; 46.	Nautophone: Mo.(W) ev. 30s.
17628 <i>E 5004</i>	--E. breakwater, head.	43° 11.2' N 27° 55.3' E	FI.W. period 10s	56 17	10	White round metal tower; 29.	Nautophone: 2 bl. ev. 10s.
17632 <i>E 5006</i>	--S. breakwater, head.	43° 11.5' N 27° 55.1' E	Iso.R. period 4s	33 10	2	White tower; 20.	
17633 <i>E 5005</i>	---E. breakwater, head.	43° 11.5' N 27° 55.2' E	Iso.G. period 4s	33 10	2	White round metal tower; 20.	
17640 <i>E 5008.5</i>	-Yevksinogradskiy, mole, head.	43° 13.1' N 27° 59.3' E	F.R.	62 19	6	White round metal tower; 52.	
17642 <i>E 5008.7</i>	Nos Kavaklar.	43° 15.1' N 28° 01.7' E	FI.W. period 7s				
17644 <i>E 5009</i>	Ekrene.	43° 19.7' N 28° 03.9' E	FI.(2)W. period 30s fl. 0.7s, ec. 7.1s fl. 0.7s, ec. 21.5s	308 94	25	White square tower, yellow dwelling; 49.	
17646 <i>E 5009.5</i>	Balcik.	43° 24.2' N 28° 09.9' E	F.W.				
17648 <i>E 5010</i>	Bukhta Balchik, breakwater, head.	43° 23.6' N 28° 10.1' E	L.FI.R. period 5.5s fl. 2.5s, ec. 3s	33 10	8	Skeleton tower; 26.	
17652 <i>E 5011</i>	-Pier, root.	43° 24.7' N 28° 21.1' E	Iso.W. period 5s	36 11	5	White metal column, concrete base; 9.	
17656 <i>E 5012</i>	Nos Kaliakra.	43° 21.8' N 28° 28.1' E	FI.W. period 5s fl. 0.5s, ec. 4.5s	223 68	21	White masonry tower on dwelling; 33.	Nautophone: Mo.(K) ev. 30s. Radiobeacon.
17660 <i>E 5016</i>	Nos Shabla.	43° 32.2' N 28° 36.5' E	FI.(3)W. period 20s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 2.5s fl. 1s, ec. 15s	118 36	17	White octagonal stone tower, red bands; 105.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ROMANIA							
17664 E 5018	Mangalia , about 4 km. 282° from breakwater light.	43° 48.7' N 28° 33.6' E	Fl.(2)W. period 5.5s fl. 0.1s, ec. 1.3s fl. 0.1s, ec. 4s	236 72	22	White pyramidal stone tower; 138.	
17668 E 5019	-NE. breakwater.	43° 48.0' N 28° 36.1' E	Fl.W. period 4s fl. 1.5s, ec. 2.5s	75 23	10	Metal tower; 69.	Nautophone: (700 meters 255°) Mo.(M) ev. 17s.
17672 E 5019.5	-NE. breakwater, spur.	43° 48.1' N 28° 35.8' E	Fl.G. period 3s fl. 1s, ec. 2s	49 15	5	Gray stone and concrete dwelling; 42.	
17684 E 5020	-SE. breakwater, head.	43° 48.0' N 28° 46.0' E	Fl.R. period 3s fl. 1s, ec. 2s	49 15	5	Gray stone and concrete dwelling; 42.	
17688 E 5022	Capul Tuzia.	43° 59.5' N 28° 40.1' E	Fl.(2)W. period 9.7s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 7s	203 62	20	Black metal framework, white band; 144.	Visible 191°-014°. Nautophone: 1 bl. ev. 30s (bl. 5s, si. 25s).
			F.R.	187 57	6	Same structure.	Visible 162°-192°.
CONSTANTA:							
17692 E 5025	-Constanta.	44° 09.5' N 28° 37.9' E	Fl.(2)W. period 29.8s fl. 0.4s, ec. 6.6s fl. 0.4s, ec. 22.4s	285 87	24	White pyramidal concrete tower, blue cupola; 190.	Radiobeacon.
17700 E 5026	-Outer Harbor, E. breakwater, head.	44° 08.6' N 28° 40.5' E	Fl.W. period 4.5s fl. 1.5s, ec. 3s	79 24	10	Gray stone tower; 59.	Nautophone: Mo.(C) ev. 30s (bl. 4.5s, si. 1.5s, bl. 1.5s, si. 1.5s, bl. 4.5s, si. 1.5s, bl. 1.5s, si. 13.5s).
17704 E 5026.2	--E. breakwater, traverse arm.	44° 08.9' N 28° 40.4' E	Fl.G. period 3s fl. 1s, ec. 2s	46 14	5	Gray dwelling, cupola; 29.	
17708 E 5026.4	--S. breakwater, head.	44° 08.8' N 28° 40.2' E	Fl.R. period 3s fl. 1s, ec. 2s	46 14	5	Gray dwelling, cupola; 29.	
17720 E 5028.2	---E. breakwater, head.	44° 10.7' N 28° 39.7' E	Fl.R. period 3s	34 10	4	Red metal mast; 28.	
17728 E 5028	-Marina, NE. side.	44° 10.7' N 28° 39.7' E	Fl.G. period 3s	34 10	4	Green metal mast; 28.	
17732 E 5030	Cape Midia.	44° 20.9' N 28° 41.1' E	Fl.W. period 5s fl. 1.5s, ec. 3.5s	118 36	17	Red framework tower, white bands, white cupola; 72.	
17733 E 5030.2	-Entrance.	44° 19.3' N 28° 41.8' E	Fl.W. period 5s fl. 1.5s, ec. 3.5s	82 25	10	Metal structure on white concrete tower; 59.	
17736 E 5031	Gura Portita, fairway, S. side.	44° 40.5' N 28° 59.3' E	Fl.W. period 9s fl. 1s, ec. 8s	72 22	10	Black framework tower, white bands and white rectangular cupola; 72.	
DANUBE RIVER ENTRANCES:							
17740 E 5032	-Gura Sfintu Gheorghe.	44° 54.0' N 29° 36.1' E	Fl.(2)W. period 7.2s fl. 0.1s, ec. 1.7s fl. 0.1s, ec. 5.3s	157 48	19	Blue tower; 164.	
17744 E 5034	-Sulina.	45° 08.9' N 29° 45.6' E	Fl.(3)W. period 16.2s fl. 0.4s, ec. 1.5s fl. 0.4s, ec. 1.5s fl. 0.4s, ec. 12s	161 49	19	White round stone tower, red cupola; 157.	Visible 165°-045°. Nautophone: Mo.(SU) 30s.
-RACON					15	(3 & 10cm)	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ROMANIA							
17745 <i>E 5034.2</i>	--S. breakwater, head.	45° 08.7' N 29° 46.1' E	Fl.R. period 5.5s fl. 0.7s, ec. 4.8s	20 6	5	Rectangular concrete tower; 13.	
17745.5 <i>E 5034.4</i>	--N. breakwater, head.	45° 08.8' N 29° 46.2' E	Fl.G. period 5.5s fl. 0.7s, ec. 4.8s	20 6	5	Rectangular concrete tower; 13.	
UKRAINE							
17772 <i>E 5036</i>	Ostrov Zmeinyy.	45° 14.9' N 30° 11.9' E	Fl.W. period 4.5s fl. 1.5s, ec. 3s	177 54	17	White tower; 59.	Reserve light Fl.(3)W. 15s 15M. Radiobeacon.
17788 <i>E 5041</i>	-Girlo Prorva, Provinskiy, at 3.23 km., channel, E. side.	45° 28.1' N 29° 43.4' E	L.Fl.(2)W. period 9s fl. 2s, ec. 1s fl. 2s, ec. 4s	95 29	12	Green metal framework tower; 92.	Visible 103°-350°. Traffic signals.
	-RACON		P(•--•) period 30s		18		
17792 <i>E 5041.2</i>	Mys Rezerv.	45° 28.6' N 29° 44.3' E	Fl.W. period 7s fl. 1s, ec. 6s		12	Red framework tower; 56.	Visible 207°30'-006°30'. Shown when Girlo Prorva is extinguished.
17796 <i>E 5042</i>	--Entrance Range, front.	45° 27.9' N 29° 43.2' E	F.R.	33 10	6	White quadrangular structure, black stripe, ball daymark; 39.	
17800 <i>E 5042.1</i>	---Rear, 0.7 km. 219°12' from front.	45° 27.6' N 29° 42.8' E	F.R.	56 17	6	White quadrangular structure, ball daymark; 59.	
17808 <i>E 5053</i>	Primorskoye.	45° 31.8' N 29° 38.9' E	Fl.W. period 5s fl. 1s, ec. 4s	49 15	12	White metal framework tower; 39.	Radar reflector.
17812 <i>E 5053.3</i>	Kataranskiy.	45° 37.6' N 29° 44.1' E	Oc.W. period 4s lt. 3s, ec. 1s	59 18	13	Beacon; 49.	
17820 <i>E 5053.6</i>	Ozero Shagany.	45° 40.4' N 29° 53.1' E	Fl.W. period 3s fl. 1s, ec. 2s	65 20	14	Black trapezoidal daymarks on red concrete column; 52.	Reserve light range 7M.
	RACON		SH(••• ••••) period 30s		20		
17824 <i>E 5054</i>	Burnas.	45° 49.7' N 30° 09.3' E	Iso.R. period 2s	82 25	8	White stone structure on yellow building; 43.	
17828 <i>E 5056</i>	Budaki.	45° 55.2' N 30° 17.2' E	Fl.W. period 5s fl. 1s, ec. 4s	125 38	17	Red square iron tower, black square daymark, white stripe, wind generator; 49.	Reserve light range 7M.
DNESTROVSKIY LIMAN:							
17840 <i>E 5060</i>	-Tsaregradskoye Girlo Range, front.	46° 04.5' N 30° 28.1' E	F.G.	75 23	8	Red framework tower, red daymark, white stripe; 69.	Visible on range line only. Traffic signals.
			F.G.	72 22			Visible 180°-270°.
17844 <i>E 5060.1</i>	--Rear, 220 meters 265°06' from front.	46° 04.5' N 30° 28.3' E	L.Fl.W. period 7.5s fl. 3s, ec. 4.5s	112 34	16	Red framework tower, red rectangular daymark, white stripe, 2 white bands; 105.	Reserve light range 10M.
			F.G.	105 32	8		Visible on range line only.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
UKRAINE							
17848 <i>E 5068</i>	Sanzheyskiy.	46° 13.4' N 30° 36.6' E	Fl.(2)G. period 15s fl. 0.4s, ec. 3.2s fl. 0.4s, ec. 11s	115 35	17	White octagonal stone tower; 62. Floodlit.	Visible 215°-035°. Reserve light range 10M.
	RACON		SN(••• -•) period 30s		20		
ODESSKIY ZALIV TRAFFIC SEPARATION SCHEME:							
17852	-Buoy "1".	46° 08.0' N 31° 06.0' E	Q.(3)W. period 10s			E. CARDINAL BYB, pillar, topmark.	Radar reflector.
	-RACON		R(•-•) period 30s		15		
IL'ICHEVSKIY:							
17860 <i>E 5071</i>	-S. mole, head.	46° 18.9' N 30° 40.9' E	Oc.(2)R. period 12s lt. 4.5s, ec. 4.5s lt. 1.5s, ec. 1.5s	66 20	15	White round concrete tower, red bands; 59.	Reserve light range 7M. Nautophone: (at root of mole) 3 bl. ev. 30s. Radiobeacon.
17864 <i>E 5071.4</i>	-N. mole, head.	46° 19.1' N 30° 39.9' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	39 12	4	Red metal column; 33.	
17868 <i>E 5072</i>	-Aleksandrouka, entrance Range, front.	46° 19.5' N 30° 39.1' E	F.G. (neon)	151 46	10	Black metal framework tower, white rectangular daymark, black stripe; 89.	Visible on range line only.
17872 <i>E 5072.1</i>	--Rear, about 0.7 km. 288°30' from front.	46° 19.6' N 30° 38.5' E	F.R. (neon)	236 72	11	Black metal framework tower, white rectangular daymark, black stripe; 95.	Visible on range line only.
IL'ICHEVSK:							
17876 <i>E 5073</i>	-Severnnyy Portovyy, inner N. mole, head.	46° 19.1' N 30° 40.6' E	L.Fl.G. period 6s fl. 2s, ec. 4s	33 10	4	White round metal column, black bands; 26.	
17878 <i>E 5072.6</i>	--S. inner mole.	46° 19.0' N 30° 40.5' E	L.Fl.R. period 6s fl. 2s, ec. 4s	33 10	4	White round metal column, red bands; 26.	
17882 <i>E 5074</i>	-Fishing wharf No. "5".	46° 18.9' N 30° 40.0' E	L.Fl.R. period 6s fl. 2s, ec. 4s	23 7	4	White round metal column, red bands; 16.	
17884 <i>E 5075</i>	-W. entrance, W. side.	46° 20.0' N 30° 39.3' E	L.Fl.R. period 6s fl. 2s, ec. 4s	20 6	4	Gray metal framework tower on dolphin; 13.	
17886 <i>E 5076.3</i>	-Ostrova Dambovy, E. entrance, W. side.	46° 20.1' N 30° 39.6' E	L.Fl.R. period 6s fl. 2s, ec. 4s	39 12	4	White round metal column, red bands; 26.	
17888 <i>E 5076.4</i>	--E. side.	46° 20.1' N 30° 39.7' E	L.Fl.G. period 6s fl. 2s, ec. 4s	39 12	4	White round metal column, black bands; 26.	
17892 <i>E 5076</i>	-Sukhoy Liman Range, front.	46° 20.4' N 30° 39.0' E	F.G.	131 40	2	Metal framework tower, white rectangular daymark, black stripe; 52.	Visible 340°42'-350°42'.
17896 <i>E 5076.1</i>	--Rear, 247 meters 345°42' from front.	46° 21.0' N 30° 39.2' E	F.W.	167 51	3	Metal framework tower, white rectangular daymark, black stripe; 92.	Visible 340°42'-350°42'.
17898 <i>E 5076.8</i>	-Berth No. "23".	46° 20.5' N 30° 39.0' E	L.Fl.R. period 6s fl. 2s, ec. 4s	23 7	4	White round metal column, red bands; 16.	
17899 <i>E 5077.5</i>	-Ferry Pier.	46° 20.7' N 30° 39.1' E	Fl.G. period 2s	36 11	2	Black round metal column, white bands; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
UKRAINE							
17899.1 <i>E 5077.3</i>	-RoRo berth.	46° 20.2' N 30° 39.3' E	L.FI.G. period 6s		4	White metal column, black bands.	
17900 <i>E 5077.7</i>	-Pier "SR3".	46° 20.5' N 30° 38.5' E	F.G.	26 8	1	Round metal framework tower; 16.	
17904 <i>E 5078</i>	Odesskiy Zaliv.	46° 22.9' N 30° 44.9' E	FI.(3)W. period 12s fl. 1.5s, ec. 1.5s fl. 1.5s, ec. 1.5s fl. 1.5s, ec. 4.5s	275 84	22	White metal framework tower, central column; 89.	Visible 197°-047°. Reserve light FI.W. 5s 9M. Nautophone: (370 meters SE.) 3 bl. ev. 30s. Reserve Bell: 2 strokes ev. 120s. Radiobeacon.
17908 <i>E 5080</i>	Lanzheronskiy.	46° 27.3' N 30° 46.1' E	F.R.	98 30	12	Gray tower; 66.	Visible 195°-328°.
ODESSA:							
17912 <i>E 5082</i>	-Reydovyy, approach Range, front.	46° 29.8' N 30° 45.7' E	FI.(3)R. period 12s fl. 0.3s, ec. 2.1s fl. 0.4s, ec. 2.1s fl. 0.3s, ec. 6.8s	88 27	15	White round tower, red lantern; 85.	Nautophone: 5 bl. ev. 60s. Reserve Bell. Radiobeacon.
17916 <i>E 5084</i>	--Odesskiy Stvornyy, rear, 1.93 km. 250°24' from front.	46° 29.4' N 30° 44.0' E	F.R.	180 55	18	White hut on roof of building; 66.	F.W. 8M by day.
17918 <i>E 5085</i>	-Ogon' Karantinnyy.	46° 29.5' N 30° 45.5' E	Oc.W. period 5s lt. 3.5s, ec. 1.5s	190 58	19	Yellow control tower, blue rectangular daymark; 157.	Visible 200°-335°. Radar reflector.
17920 <i>E 5086</i>	-Detached breakwater, E. head.	46° 29.7' N 30° 45.5' E	FI.G. period 3s fl. 1s, ec. 2s	36 11	3	White metal framework tower; 30.	
17924 <i>E 5088</i>	--W. head.	46° 29.9' N 30° 44.6' E	FI.R. period 3s fl. 1s, ec. 2s	36 11	3	White metal framework tower; 30.	
17928 <i>E 5090</i>	-Dredged channel Range, front.	46° 30.0' N 30° 44.4' E	FI.G. period 3s	33 10	2	Metal framework tower, white shield, black stripe, triangular daymark; 33.	Visible on range line only.
17932 <i>E 5090.1</i>	--Rear, 695 meters 274°36' from front.	46° 30.2' N 30° 43.8' E	F.G. (neon)	82 25	3	White triangular daymark, white rectangular daymark, black stripe; 72.	Visible on range line only.
17936 <i>E 5103</i>	-Neftyanaya Gavan', entrance Range, front.	46° 30.8' N 30° 43.9' E	F.G. (neon)	72 22	3	Framework tower, black trapezoidal daymark; 72.	Visible on range line only.
17940 <i>E 5103.1</i>	--Rear, 200 meters 327°36' from front.	46° 30.9' N 30° 43.8' E	F.R. (neon)	95 29	3	Framework tower, black trapezoidal daymark; 85.	Visible on range line only.
17944 <i>E 5102</i>	--Auxiliary Range, front.	46° 29.9' N 30° 44.8' E	FI.G. period 1.5s fl. 0.5s, ec. 1s	33 10	3	Mast, white daymark, black stripe; 33.	Visible on range line only.
17948 <i>E 5102.1</i>	---Rear, about 2.2 km. 147°36' from front.	46° 28.8' N 30° 45.7' E	F.R. (neon)	131 40	4	Column, white daymark, black stripe; 49.	Visible on range line only.
17952 <i>E 5091</i>	-W. breakwater, S. head.	46° 29.9' N 30° 44.4' E	L.FI.G. period 6s fl. 2s, ec. 4s	39 12	2	White round concrete column; 33.	
17956 <i>E 5092</i>	--N. head.	46° 30.3' N 30° 44.2' E	L.FI.R. period 6s fl. 2s, ec. 4s	39 12	3	White round concrete column; 33.	
17958 <i>E 5089</i>	-Potapovskiy, mole, head.	46° 29.8' N 30° 44.5' E	FI.G. period 3s fl. 0.5s, ec. 2.5s	23 7	2	Green metal post; 16.	
17960 <i>E 5089.4</i>	--W. head.	46° 29.8' N 30° 44.4' E	FI.Bu. period 3s fl. 0.5s, ec. 2.5s	23 7		Black round metal column; 16.	

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UKRAINE							
17964 <i>E 5100</i>	--Mole T-head, SE. head.	46° 30.6' N 30° 44.3' E	Fl.Bu.	33 10	1	White round metal column; 26.	
17972 <i>E 5104</i>	--Second Channel Approach Range, front.	46° 30.8' N 30° 44.3' E	Iso.R. (neon) period 3s	59 18	6	Square metal framework tower, yellow rectangular daymark, white stripe; 56.	Visible on range line only.
17972.1 <i>E 5104.1</i>	--Rear, 185 meters 286°36' from front.	46° 30.8' N 30° 44.2' E	Oc.R. (neon) period 6s lt. 4.5s, ec. 1.5s	69 21	11	Square metal framework tower, yellow rectangular daymark, white stripe; 66.	Visible on range line only.
17984 <i>E 5106</i>	Mys Severnyy Odesskiy.	46° 33.1' N 30° 49.7' E	Fl.W. period 5s fl. 1.5s, ec. 3.5s	184 56	16	Orange column on white round concrete tower; 33.	Reserve light range 8M.
17988 <i>E 5107</i>	Grigoryevskiy.	46° 35.9' N 31° 00.1' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	197 60	18	White concrete tower topped by black round daymark, lower part is truncated cone; 49.	Visible 272°-060°. Reserve light Fl.R. 5s 8M.
17992 <i>E 5108</i>	Sychavskiy.	46° 36.6' N 31° 06.9' E	Fl.W. period 4s fl. 1.5s, ec. 2.5s	144 44	15	Gray metal framework tower, on roof of white building; 33.	Reserve light range 8M.
18000 <i>E 5110</i>	Mys Karabush.	46° 37.0' N 31° 15.6' E	Oc.W. period 5s lt. 3s, ec. 2s	180 55	18	Gray concrete tower, black round daymark; 52.	Reserve light range 5M.
18008 <i>E 5116</i>	Ostrov Berezan'.	46° 35.9' N 31° 24.8' E	Fl.G. period 3.5s	105 32	4	Black masonry pillar; 36.	
DNEPROVSKIY LIMAN:							
18016 <i>E 5118</i>	--Berezan'-Ochakov Range, front.	46° 36.6' N 31° 32.5' E	Iso.R. period 3s	126 38	14	White round masonry tower, black stripe, round daymark; 63.	Visible 339°-159°. Reserve light Iso.W. 3s 3M.
18020 <i>E 5118.1</i>	--Rear, 820 meters 068° 54' from front.	46° 36.7' N 31° 33.0' E	Oc.R. period 6s	161 49	14	White round masonry tower, black stripe, round daymark; 66.	Visible 339°-159°. Reserve light Oc.W. 6s 4M. Signal station.
18024 <i>E 5126</i>	--Viktorovka Range, front.	46° 37.6' N 31° 27.0' E	F.R.	62 19	12	White round concrete tower, orange rectangular daymark; 56.	
18028 <i>E 5126.1</i>	--Rear, 4.6 km. 314°42' from front.	46° 39.3' N 31° 24.4' E	F.W.	135 41	18	White metal framework tower, orange rectangular daymark; 52.	Visible 255°-015°. A directional F.W. light shows on request on range.
18044 <i>E 5128</i>	--Fort Nicolaev Range, front.	46° 34.5' N 31° 33.6' E	F.R.	45 14	5	White round iron tower; 40.	Visible 060°-140°.
18048 <i>E 5128.1</i>	--Rear, 73 meters 092°36' from front.	46° 34.5' N 31° 33.5' E	F.W.R.G.	79 24	5	Black iron framework structure, concrete base, black rectangular daymark, white stripe; 85.	G. 060°-140°, R. 171°- 187°, W. 190°-262°.
18056 <i>E 5136.1</i>	Fifth Reach, W.	46° 35.4' N 31° 32.9' E	Iso.W. period 3s	92 28	10	Gray metal framework tower, concrete base, orange rectangular daymark, black stripe; 92.	Intensified 268°18'.
18058 <i>E 5124</i>	--Kinburnskaya Kosa.	46° 34.6' N 31° 30.8' E	Fl.W. period 3s	29 9	7	Black framework square metal tower; 26.	Radar reflector.
18060 <i>E 5137</i>	--Vostochnyy Range, front.	46° 35.7' N 31° 49.2' E	Q.W.	36 11	10	Gray iron tower, concrete base, black quadrangular daymark, white stripe; 52.	
18064 <i>E 5137.1</i>	--Rear, 3.5 km. 088°18' from front.	46° 35.7' N 31° 52.0' E	Iso.W. period 3s	88 27	10	Gray iron tower, concrete base, black quadrangular daymark, white stripe; 105.	
18068 <i>E 5130</i>	--Adzhigol'skiy Range, front.	46° 36.0' N 31° 38.8' E	Q.R.	55 17	10	Gray square concrete tower, black daymark, white stripe; 49.	
18072 <i>E 5130.1</i>	--Middle, 5.17 km., 069°06' from front.	46° 37.0' N 31° 42.5' E	Iso.W. period 4s	111 34	17	Red framework iron tower concrete base, black daymark, white stripe.	Visible on range line only.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
UKRAINE							
18076 <i>E 5130.2</i>	--Rear, 9.95 km. 069°06' from front.	46° 37.9' N 31° 46.0' E	F.W.	220 67	23	Red framework tower, red square daymark; 79.	Visible on range line only.
18080 <i>E 5146</i>	-Adzhigiol'skay Kosy Range, front.	46° 36.8' N 31° 47.9' E	Fl.R. period 2.5s fl. 0.5s, ec. 2s	26 8	2	White quadrangular masonry tower, seaward side painted black, white stripe.	Visible 280°-050° Shown when lighted buoys are withdrawn.
18084 <i>E 5146.1</i>	--Rear, 160 meters 350° from front.	46° 36.8' N 31° 47.8' E	Iso.W. period 4s	33 10	4	White quadrangular masonry tower, seaward side, black and white stripes.	Visible 280°-050°.
18088 <i>E 5149</i>	-Stanislav Range , front.	46° 30.7' N 32° 09.1' E	F.R.	79 24	16	Red iron framework tower; 85.	Visible on range line only. Shown on request by day or in poor visibility.
18092 <i>E 5149.1</i>	--Rear, 6.49 km. 109° from front.	46° 30.0' N 32° 14.0' E	F.W.	221 67	19	Red iron framework tower; 211.	Visible on range line only. On request and in poor visibility.
REKA BUG:							
18095 <i>E 5181.9</i>	-Limanoozharskiy Range, front.	46° 38.2' N 31° 55.8' E	Q.W.	36 11	8	White concrete column, orange stripe; 36.	
18096 <i>E 5182</i>	--Mys Khablovskiy, middle, 4.8 km. 064°06' from front.	46° 39.0' N 31° 58.7' E	Iso.R. period 6s	111 34	10	White concrete column, red stripe; 36.	
			F.W.		5		
18100 <i>E 5182.1</i>	---Rear, 8.6 km. 064°06' from front.	46° 39.9' N 32° 01.9' E	F.W.	190 58	20	Red tower, black stripe; 79.	Channel marked by numerous range lights.
			F.W.		6		
REKA DNEPR:							
18164 <i>E 5152</i>	-Kizomys Range, front.	46° 33.8' N 32° 18.7' E	F.R. (neon)	49 15	12	Square daymark on white stone house; 19.	Visible on range line only.
18168 <i>E 5152.1</i>	--Rear, 1630 meters 075°54' from front.	46° 34.0' N 32° 20.0' E	F.W. (neon)	114 35	12	Red trapezoidal daymark on framework tower; 89.	Visible on range line only.
REKA RVACH							
18172 <i>E 5156</i>	-Malyy Kasperdskiy Entrance Range, front.	46° 33.3' N 32° 19.2' E	F.G. (neon)	37 11	2	Black daymarks, white stripe; 36.	Visible on range line only.
18176 <i>E 5156.1</i>	--Rear, 500 meters 096°12' from front.	46° 33.3' N 32° 19.5' E	F.G. (neon)	62 19	2	Black daymarks, white stripe; 62.	Visible on range line only.
TENDEROVSKAYA KOSA:							
18180 <i>E 5244</i>	-N. head.	46° 21.9' N 31° 31.9' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	89 27	8	Black framework tower; 66.	
18184 <i>E 5247</i>	-Tendrovskiy, S. side.	46° 15.8' N 31° 34.1' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	36 11	7	Framework tower; 33.	
18188 <i>E 5246</i>	-Tendrovskiy.	46° 19.0' N 31° 30.5' E	Oc.W. period 12s lt. 9s, ec. 3s	95 29	16	White round tower, black bands, black double ball daymark; 102.	Horn: 2 bl. ev. 20.5s. Radiobeacon.
	-RACON		TD(- - ••) period 30s		25		
18192 <i>E 5242</i>	-Kosa Belyye Kuchugury.	46° 14.8' N 31° 39.8' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	49 15	5	Framework tower; 39.	
18200 <i>E 5248</i>	Tendrovskiy-Zheleznyy.	46° 09.9' N 32° 04.3' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	43 13	9	Mast, black square daymark; 39.	Radar reflector.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
UKRAINE							
18210 <i>E 5255</i>	Ostrov Dzharylhach.	46° 00.8' N 33° 03.9' E	Fl.R. period 5s		11		
18220 <i>E 5272</i>	Isaychava.	45° 41.6' N 33° 02.4' E	L.Fl.W. period 5s		11		Radar reflector.
18244 <i>E 5278</i>	Mys Tarkhankut.	45° 21.0' N 32° 29.8' E	Fl.(2)W. period 7.5s fl. 1.5s, ec. 1.5s fl. 1.5s, ec. 3s	117 36	17	White round masonry tower; 108.	Obscured 168°-287°. Horn: 3 bl. ev. 30s. Radiobeacon.
18248 <i>E 5280</i>	Popovka.	45° 17.7' N 33° 02.2' E	L.Fl.W. period 6s fl. 2s, ec. 4s	73 22	14	Framework tower, white rectangular daymark, black stripe; 46.	Radar reflector.
18249 <i>E 5279.5</i>	Donuzlev Range, front.	45° 22.2' N 33° 04.0' E	Iso.W. period 2s		13		
18249.1 <i>E 5279.51</i>	-Rear, 1.5 miles 052°30' from front.	45° 23.2' N 33° 05.8' E	Oc.W. period 5s		15		
18250 <i>E 5281</i>	Vitino.	45° 12.1' N 33° 09.2' E	Fl.W. period 4s	69 21	13	Black structure; 53.	
YEVPARATORIYSKIY:							
18252 <i>E 5282</i>	-Mys Yevpatoriyskiy.	45° 08.6' N 33° 15.8' E	Fl.(2)W. period 10s fl. 0.2s, ec. 2.4s fl. 0.2s, ec. 7.2s	174 53	20	White octagonal concrete tower; 170.	Visible 247°30'-123°48'. Reserve light Oc.(2)W. 12s 15M. Radiobeacon.
18258 <i>E 5285</i>	Solodunova.	45° 07.6' N 33° 31.3' E	Fl.(2)R. period 12s		15		
18260 <i>E 5287</i>	Nikolayevka.	44° 58.6' N 33° 36.0' E	Fl.R. period 3s		11		Visible 357°-167°.
18268 <i>E 5288</i>	Mys Lukull.	44° 50.0' N 33° 33.4' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	134 41	16	Red framework tower, white rectangular daymark, black stripe; 52.	
18269 <i>E 5293</i>	Mys Marhopulo.	44° 47.5' N 33° 32.1' E	Fl.R. period 3s		9		Radar reflector.
18270 <i>E 5300</i>	Lyubimovka.	44° 42.3' N 33° 33.0' E	Fl.W. period 5s		18		
18272 <i>E 5302</i>	Sevastopol, S. Range, front.	44° 37.1' N 33° 35.3' E	F.R.	298 91	18	White square stone building; 33.	Forms range 100°54' with Sevastopol N., front.
18273 <i>E 5302.1</i>	-Rear, 1.75 miles 094°30' from front.	44° 37.0' N 33° 37.8' E	F.W.	643 196	24	White square stone building; 33.	
18276 <i>E 5302.5</i>	-N. Range, front.	44° 37.7' N 33° 30.9' E	Oc.R. period 6s		14		Visible 042°-162°.
18278 <i>E 5303.5</i>	-Karantinnaya Bukhta Range, front.	44° 36.6' N 33° 30.0' E	Oc.G. period 2.3s		6		Other leading lights are shown in this bay.
18279 <i>E 5303.51</i>	--Rear, 100 meters 158°48' from front.	44° 36.6' N 33° 30.0' E	Oc.G. period 2.3s		6		Radar reflector.
18280 <i>E 5304.7</i>	-Fishing Harbor Range, front.	44° 34.4' N 33° 25.7' E	Iso.R. period 4s		12		Visible 128°-188°.
18281 <i>E 5304.71</i>	--Rear, 275 meters 158° from front.	44° 34.3' N 33° 25.8' E	F.R.		12		Visible 128°-188°.
18316 <i>E 5305.5</i>	Manganari.	44° 35.6' N 33° 25.0' E	Fl.G. period 3s		3		

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UKRAINE							
18320 <i>E 5308</i>	Mys Khersonesskiy.	44° 34.8' N 33° 23.8' E	Mo.(SW)W. period 60s fl. 3s, ec. 3s fl. 3s, ec. 3s fl. 3s, ec. 6s fl. 3s, ec. 3s fl. 6s, ec. 3s fl. 6s, ec. 18s	111 34	16	White round stone tower; 118.	Nautophone: 2 bl. ev. 15s (bl. 3s, si. 2s, bl. 6s, si. 4s). Radiobeacon.
18324 <i>E 5309</i>	Mys Feilent.	44° 30.0' N 33° 29.0' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	551 168	12	Red metal framework tower; 14.	Visible 282°-148°.
18326 <i>E 5310</i>	Kayabashi.	44° 29.4' N 33° 33.3' E	Fl.W. period 4s fl. 1s, ec. 3s	988 301	19	Red framework tower, white rectangular daymark, black stripe; 36.	
18336 <i>E 5314</i>	Mys Sarych.	44° 23.3' N 33° 44.5' E	Iso.W. period 6s	125 38	17	White round metal tower; 35.	Visible 276°-120°.
18340 <i>E 5316</i>	Mys Aytodor.	44° 25.7' N 34° 07.4' E	Fl.(2)G. period 6s fl. 0.2s, ec. 1.3s fl. 0.2s, ec. 4.3s	285 87	24	White octagonal metal tower; 30.	Visible 232°-071°. Reserve light F.G. 10M. Radiobeacon.
18344 <i>E 5320</i>	Yalta, mole, head.	44° 29.5' N 34° 10.2' E	L.Fl.R. period 7.5s fl. 3s, ec. 4.5s	48 15	13	White stone tower; 39.	Reserve light range 4M.
18345 <i>E 5321</i>	Massandrovskiy Range, front.	44° 29.9' N 34° 12.3' E	F.R.	66 20	4	Red metal square skeleton tower, white rectangular daymark; 52.	Visible on range line only.
18345.1 <i>E 5321.1</i>	-Rear, 165 meters 047° from front.	44° 30.2' N 34° 12.5' E	F.R.	98 30	4	Red metal square skeleton tower, white rectangular daymark; 46.	Visible on range line only.
18356 <i>E 5326</i>	Alushta.	44° 40.1' N 34° 24.9' E	Fl.R. period 4s fl. 1s, ec. 3s	26 8	4	Red metal structure, white bands; 13.	Radar reflector.
18360 <i>E 5328</i>	Rybachiy.	44° 45.3' N 34° 34.8' E	Fl.W. period 7.5s fl. 1.5s, ec. 6s	425 130	18	Round white stone tower; 68.	
18364 <i>E 5329</i>	Sudakskiy.	44° 50.4' N 34° 58.4' E	Fl.R. period 5s fl. 1.5s, ec. 3.5s	75 23	15	Red square metal tower, white rectangular daymark, black stripe.	Reserve light Range 10M.
18368 <i>E 5330</i>	Mys Meganom.	44° 47.5' N 35° 04.8' E	Fl.(3)W. period 15s fl. 0.4s, ec. 2.8s fl. 0.4s, ec. 2.8s fl. 0.4s, ec. 8.2s	324 99	25	White octagonal masonry tower; 41.	Visible 238°-109°. Bell: 2 strokes.
18380 <i>E 5341</i>	Mys Kiik-Atlama.	44° 57.0' N 35° 23.0' E	Fl.R. period 5s	525 160	10	Gray concrete column, gray square daymark white band; 20.	
FEODOSIYSKIY ZALIV:							
18384 <i>E 5340</i>	-Mys Il'inskiy.	45° 00.4' N 35° 25.6' E	L.Fl.(2)W. period 15s	216 66	21	Round brick tower; 49.	Visible 212°-016°. Radiobeacon.
18404 <i>E 5352</i>	Mys Chauda.	45° 00.1' N 35° 50.1' E	L.Fl.W. period 24s fl. 6s, ec. 18s	121 37	17	White octagonal tower, dwelling; 37.	
18408 <i>E 5358</i>	Mys Kyz-Aul.	45° 03.3' N 36° 22.0' E	Fl.W.R.G. period 6s	204 62	W. 21 R. 17 G. 13	White octagonal tower, black stripes; 92.	R. 253°-274°, W.-060°30', G.-070°. Radiobeacon.
18412 <i>E 5361</i>	-Mys Takil.	45° 05.9' N 36° 26.4' E	Fl.W. period 4s fl. 1s, ec. 3s	331 101	15	Black metal framework tower; 33.	

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UKRAINE							
KERCHENSKIY PROLIV:							
18436 <i>E 5616</i>	-Mys Zheleznyy Rog (R.).	45° 06.3' N 36° 44.1' E	Iso.W. period 3s	246 75	22	Metal framework tower, black trapezoidal daymark; 52.	Radiobeacon.
18440 <i>E 5615</i>	-Mys Panagiya (R.).	45° 08.5' N 36° 38.6' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	236 72	7	Red metal column; 26.	
18448 <i>E 5370</i>	-Nijni Pavlovski Range, front.	45° 17.9' N 36° 26.9' E	F.R.	213 65	16	White octagonal stone tower; 56.	Visible 351°30'-001°30'.
18452 <i>E 5370.1</i>	--Verkhni Pavkobski, rear, 640 meters 356°36' from front.	45° 18.6' N 36° 27.1' E	F.R.	344 105	15	Metal framework tower, black square daymark; 49.	Visible 351°30'-001°30'.
18456 <i>E 5373</i>	-Pavlovski Sekushchiye Range, front.	45° 18.5' N 36° 29.0' E	Iso.R. period 4s	45 14	2	Black triangle, point up, on white square daymark, black stripe; 19.	Visible on range line only. Seasonal.
18460 <i>E 5373.1</i>	--Rear, 590 meters 355°30' from front.	45° 18.7' N 36° 29.0' E	F.R.	87 27	2	White rectangular daymark, black stripe; 23.	Visible on range line only. Seasonal.
18476 <i>E 5372</i>	-Bukhta Kamysh-Burunskaya Range, front, W. side entrance.	45° 14.0' N 36° 25.0' E	F.G.	98 30	8	White octagonal stone tower; 53.	Visible on range line only.
18480 <i>E 5372.1</i>	--Rear, 1,481 meters 217°30' from front.	45° 13.8' N 36° 24.2' E	F.R.G.	174 53	R. 18 G. 8	White octagonal stone tower; 36.	G. visible on range line only, R. visible 329° only.
18492 <i>E 5374</i>	-Kamysh Burunskiy Range, front.	45° 16.4' N 36° 24.3' E	F.R.	171 52	10	White round concrete tower; 105.	Visible 240°48'-252°48'. Reserve light range 16M.
18496 <i>E 5374.1</i>	--Churubashskiy, rear, 9.3 km. 246°48' from front.	45° 15.0' N 36° 18.0' E	F.W.	415 126	20	Metal framework tower, black rectangular daymark, red stripe; 102.	Visible 240°48'-252°48'.
18552 <i>E 5376</i>	-Tamanskiy Range (R.), front.	45° 22.1' N 36° 43.3' E	Fl.W. period 3s fl. 1s, ec. 2s	72 22	15	Metal framework tower, white rectangular daymark, red stripe; 69.	Visible 180°30'-187°30'.
			F.R.		18		Visible on range line only.
18556 <i>E 5376.1</i>	--Rear, 7.0 km. 066°48' from front.	45° 24.1' N 36° 48.5' E	F.W.	197 60	25	Metal framework tower, black rectangular daymark, red stripe; 141.	Visible on range line only. Reserve light F.W. 8M.
18558 <i>E 5378</i>	-Chushkinskiy Range, front.	45° 18.8' N 36° 38.3' E	F.R.	43 13	12	White tower; 59.	Intensified on range line.
18559 <i>E 5378.1</i>	--Rear, 370 meters 194°18' from front.	45° 18.3' N 36° 38.1' E	F.R.	75 23	12	White tower; 79.	Intensified on range line.
18560 <i>E 5422</i>	-Yenikal'skiy.	45° 22.8' N 36° 38.1' E	Fl.(3)W.R. period 14s fl. 0.3s, ec. 2.6s fl. 0.3s, ec. 2.6s fl. 0.3s, ec. 7.9s	409 125	W. 27 R. 20	White round stone tower 88.	W. 159°-234°, R.-309°30', W.-039°30', obscured elsewhere. Radiobeacon.
AZOVSKOYE MORE (SEA OF AZOV)							
18600 <i>E 5429</i>	Mys Zyuk.	45° 28.9' N 36° 20.7' E	Fl.W. period 6s fl. 1s, ec. 5s	144 44	16	Metal framework structure, black rectangular shield; 42.	Seasonal.
18604 <i>E 5430</i>	Mys Kazantip.	45° 28.0' N 35° 52.0' E	Fl.W. period 7.5s fl. 1.5s, ec. 6s	321 98	18	Triangular tower, black rectangular daymark; 13.	

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AZOVSKOYE MORE (SEA OF AZOV)							
18608 <i>E 5436</i>	Ostrov Biryuchiy.	46° 05.0' N 34° 59.0' E	Fl.(2)W. period 7.5s fl. 1.5s, ec. 1.5s fl. 1.5s, ec. 3s	88 27	15	White octagonal masonry tower; 82.	
18628 <i>E 5448</i>	Novokonstantinovskiy.	46° 34.4' N 35° 42.7' E	Fl.W. period 6s		16	Metal framework tower; 33.	
18632 <i>E 5452</i>	Obitohnaya Kosa.	46° 29.2' N 36° 06.2' E	Fl.W. period 8s fl. 1.5s, ec. 6.5s	43 13	10	Red square daymark; 39.	
18640 <i>E 5454</i>	Nizhniy Berdyanskiy.	46° 38.2' N 36° 45.8' E	Oc.W. period 7.5s lt. 4.5s, ec. 3s	78 24	15	White octagonal stone tower on white two-story dwelling, red band.	Radiobeacon.
	RACON		N(—•) period 30s		17		
18648 <i>E 5458</i>	Berdyanski Verkhniy.	46° 45.6' N 36° 45.6' E	Fl.(3)R. period 9.4s fl. 0.3s, ec. 1.6s fl. 0.3s, ec. 1.6s fl. 0.3s, ec. 5.3s	236 72	19	White octagonal tower, red bands; 108.	Visible 280°-070°.
18652 <i>E 5460</i>	-Detached breakwater, NW. head.	46° 44.5' N 36° 45.9' E	Fl.G. period 3s	39 12	3	STARBOARD (A) G, beacon, topmark; 36.	Radar reflector.
18656 <i>E 5462</i>	-Detached breakwater, SE. head.	46° 44.3' N 36° 46.3' E	Fl.R. period 3s fl. 1s, ec. 2s	31 9	3	Red metal column; 20.	
18660 <i>E 5464</i>	-Range, front.	46° 44.8' N 36° 46.4' E	2 F.R. (vert.)	95 29	12	Framework structure, white rectangular daymark, black stripe; 95.	Visible on range line only. Auxiliary sector light, range 11M, F.R.(occas.) visible on range line, Fl.R. 2s visible W. of range line, Oc.R. 2s visible E. of range line.
18664 <i>E 5464.1</i>	--Rear, 1.3 km. 040°48' from front.	46° 45.4' N 36° 47.0' E	2 F.R. (vert.)	207 63	12	White diamond over square daymark, black stripe.	Visible on range line only.
18668 <i>E 5465</i>	Petrovskoi.	46° 49.1' N 36° 54.5' E	L.Fl.W. period 6s fl. 2s, ec. 4s		15		
TAGANROGSKIY ZALIV:							
18680 <i>E 5472</i>	-Belosarayskiy Zaliv.	46° 52.9' N 37° 19.5' E	Oc.(2)W. period 12s lt. 3s, ec. 1.5s lt. 3s, ec. 4.5s	70 21	14	White octagonal tower; 63.	Radiobeacon.
	-RACON		B(—•••) period 30s		17		
18684 <i>E 5576</i>	-Kosa Dolgaya, N. head.	46° 40.8' N 37° 44.6' E	Fl.W. period 7.5s fl. 1.5s, ec. 6s	23 7	11	Black round metal column; 20.	
-Port Mariupol:							
18716 <i>E 5492</i>	--S. mole, head.	47° 03.0' N 37° 31.4' E	Fl.R. period 3s	29 9	7	Red hexagonal tower and dwelling; 29.	
18720 <i>E 5490</i>	--N. mole, head.	47° 03.1' N 37° 31.5' E	Fl.G. period 3s	30 9	5	Green hexagonal tower; 19.	
18724 <i>E 5484</i>	--E. Entrance Range, front.	47° 03.8' N 37° 30.8' E	Iso.R. period 2s	66 20	10	Metal framework tower, white round daymark; 62.	Visible on range line only.
18728 <i>E 5484.1</i>	---Rear, 700 meters 331°36' from front.	47° 04.1' N 37° 30.5' E	F.R.	133 41	10	Square tower on white brick dwelling; 42.	Visible on range line only.

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AZOVSKOYE MORE (SEA OF AZOV)							
-Mariupol:							
18732 <i>E 5478</i>	--W. Entrance Range, front.	47° 03.3' N 37° 30.4' E	2 F.G. (vert.)	89 27	14	Black framework tower, white square daymark.	Visible on range line only. F.G. 14M (vertical strip) between Iso.W. and 2 F.G. (vert.) lights.
			Iso.W. period 2s	62 19	14	White reflector.	
18736 <i>E 5478.1</i>	---Middle, 0.92 mile 012°18' from front.	47° 04.2' N 37° 30.7' E	F.R.	187 57	18	White square tower on white two-story building; 77.	May be obscured within 4M. F.R. 5M (vertical strip) also visible.
			Oc.R. period 4.5s		14		
			F.F.I.R. period 4.5s				
18740 <i>E 5478.2</i>	---Rear, 1.55 miles 012°18' from front.	47° 04.8' N 37° 30.9' E	2 F.R. (vert.)	282 86	22	Black metal framework tower; 69.	Visible on range line only.
18744 <i>E 5482</i>	--Elbow of Vostochnyy Mole.	47° 02.9' N 37° 30.3' E	Fl.G. period 3s fl. 1s, ec. 2s	39 12	3	Black metal column, round daymark, white reflector; 36.	Radar reflector.
18745 <i>E 5483</i>	--Zapadnyy mole, NE. head.	47° 02.9' N 37° 30.2' E	Fl.R. period 3s	26 8	1	Red metal column; 20.	
18746 <i>E 5483.2</i>	---SW. head.	47° 02.7' N 37° 30.0' E	F.R.	20 6	1	Red metal column; 13.	Radar reflector.
18748 <i>E 5500</i>	--Razdelitel'nogo Pirsu.	47° 03.3' N 37° 30.5' E	Fl.R. period 1.5s	30 9	1	Red metal column; 23.	
18749 <i>E 5501</i>	--Khlebnaya Havan.	47° 03.4' N 37° 30.6' E	Fl.R. period 3s		1		
18750 <i>E 5502</i>	--Remontnyy Bassey'n, entrance, E. side.	47° 03.7' N 37° 31.1' E	Fl.G. period 3s	30 9	1	Green metal column; 23.	
18751 <i>E 5504</i>	---W. side.	47° 03.7' N 37° 30.9' E	F.R.	26 8	1	Red metal column; 23.	
-Port Azovstal:							
18752 <i>E 5516</i>	--E. breakwater, elbow.	47° 04.9' N 37° 34.9' E	Fl.G. period 3s	36 11	2	Green round metal column; 26.	Radar reflector.
18756 <i>E 5510</i>	--Approach Channel Range, front.	47° 05.2' N 37° 35.2' E	F.G.	72 22	8	Framework tower, white rectangular daymark; 72.	Visible on range line only.
18760 <i>E 5510.1</i>	---Middle, 0.84 mile 044° from front.	47° 05.8' N 37° 36.1' E	F.G.	174 53	8	Framework tower, white rectangular daymark; 121.	Visible on range line only.
18764 <i>E 5510.2</i>	---Rear, 1.7 miles 044° from front.	47° 06.4' N 37° 36.9' E	F.G.	217 66	8	Framework tower, white rectangular daymark; 112.	Visible on range line only.
18768 <i>E 5512</i>	--Gavan'Schmidta Range, front.	47° 05.6' N 37° 34.4' E	F.G. (neon)	56 17	8	White trapezoidal daymark with ball daymark, black stripe; 56.	Visible on range line only.
18772 <i>E 5512.1</i>	---Rear, 1400 meters 338°30' from front.	47° 06.3' N 37° 33.9' E	F.G. (neon)	112 34	9	White trapezoidal daymark with ball daymark, black stripe; 46.	Visible on range line only.
18776 <i>E 5520</i>	-Sedovo.	47° 03.0' N 38° 08.0' E	Fl.W. period 7.5s fl. 1.5s, ec. 6s	62 19	13	Red metal framework tower, red rectangle; 56.	
18880 <i>E 5578</i>	Kamyshevatskaya.	46° 23.9' N 37° 55.1' E	Fl.W. period 13s fl. 1s, ec. 12s	95 29	16	White concrete tower, white shield, red band; 49.	
18896 <i>E 5586</i>	Akhtarskiy.	46° 06.3' N 38° 10.8' E	Fl.W. period 6s fl. 1.5s, ec. 4.5s	85 26	15	White octagonal stone tower; 67.	Visible 080°-170°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
AZOVSKOYE MORE (SEA OF AZOV)							
18904 <i>E 5594</i>	Achuyev, Reka Sladkoye, entrance, S. side.	45° 41.1' N 37° 38.7' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	54 16	8	Black iron framework tower and hut; 49.	
18928 <i>E 5606</i>	-Tyemryuk.	45° 19.8' N 37° 14.0' E	Fl.W.R. period 7.5s fl. 1.5s, ec. 6s	226 69	W. 20 R. 13	White octagonal tower; 46.	W. 105°-134°, R.-170°, W.-270°. Radiobeacon.

Section 13

Russia, Georgia, Turkey and Islands of the Eastern Aegean Sea Including Dhodhekanisos

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RUSSIA							
18936 <i>E 5428</i>	Mys Akhilleon.	45° 26.4' N 36° 47.2' E	Iso.R. period 6s	207 63	17	Framework tower, black square daymark; 66.	
18940 <i>E 5616.5</i>	Yantarny.	45° 06.8' N 36° 52.6' E	Fl.W. period 10s	99 30	16	Red iron framework tower; 20.	
18941 <i>E 5617.2</i>	Kubanskiy.	45° 03.5' N 37° 04.1' E	Fl.W. period 6s	121 37	12	White framework supports, black rectangular daymark; 39.	
18942 <i>E 5617.5</i>	Blagoveshchenskiy.	44° 59.4' N 37° 14.2' E	Fl.W. period 5s		8		Radar reflector.
ANAPA:							
18944 <i>E 5618</i>	-Mys Anapskiy.	44° 52.9' N 37° 17.7' E	L.Fl.(2)R. period 15s fl. 3s, ec. 3s fl. 3s, ec. 6s	144 44	15	Black truncated pyramid; 66.	Radiobeacon.
18964 <i>E 5632</i>	Ostrov Utrish.	44° 45.5' N 37° 22.7' E	Iso.W. period 3s	84 26	15	White tower; 57.	Reserve light range 6M, visible 127°-340°.
18972 <i>E 5632.5</i>	Mys Vtrishenok.	44° 42.4' N 37° 27.4' E	L.Fl.W. period 7s	43 13	12	Framework tower, white rectangular daymark; 39.	
18976 <i>E 5633</i>	Ozereyevskiy, river mouth, E.	44° 40.2' N 37° 38.4' E	Fl.(2)W.R. period 6s	125 38	W. 14 R. 9	White tower; 23.	W. shore-320°, R.-048°, W.-shore.
18978 <i>E 5634</i>	Mole, head.	44° 40.1' N 37° 39.4' E	Fl.(2)R. period 3s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 1.5s		2		
NOVOROSSISYKAYA BUKHTA:							
18980 <i>E 5639</i>	-Kosa Sudzhukskaya, southeastward of shoal.	44° 39.8' N 37° 49.5' E	Fl.(2)R. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	38 12	9	White round masonry tower, gray stone base; 43.	Radar reflector.
18984 <i>E 5636</i>	-Mys Doobskiy.	44° 37.2' N 37° 54.3' E	Fl.(3)W. period 16.5s	328 100	21	White octagonal tower; 75.	Visible 325°-152°. Reserve light Oc.W. 7.5s 6M. Nautophone: 3 bl. ev. 20s. Radiobeacon.
18988 <i>E 5640</i>	-Kabardinskiy Range, front.	44° 38.1' N 37° 55.2' E	Iso.R. period 4s	59 18	7	Quadrangular iron framework work structure, white daymark; 29.	
18992 <i>E 5640.1</i>	--Middle, 305 meters 130° from front.	44° 38.1' N 37° 55.2' E	Iso.R. period 4s	125 38	7	Quadrangular iron framework structure, white daymark; 33.	Visible on range line only.
18996 <i>E 5640.2</i>	--Rear, 0.65 km. 130° from front.	44° 38.3' N 37° 55.9' E	Iso.R. period 4s	295 90	7	Quadrangular iron framework structure, white daymark; 30.	
19000 <i>E 5638</i>	-Mys Penay Range, front.	44° 40.4' N 37° 52.6' E	Iso.G. period 3s	108 33	9	Metal framework tower, white quadrangular shield, red stripe; 66.	Visible 305°-128°. Reserve light Iso.G. 3s 4M.
19004 <i>E 5638.1</i>	--Rear, 425 meters 001°54' from front.	44° 41.0' N 37° 52.9' E	Iso.G. period 3s	193 59	9	Metal framework tower, white quadrangular shield, red stripe; 33.	Visible on range line only. Reserve light Iso.G. 3s 7M.
19008 <i>E 5642.8</i>	-Fishing cannery, Pier "1".	44° 41.7' N 37° 47.5' E	F.G.	17 5	1	Gray post; 8.	F.Y. marks pier 140 meters NNE.
19016 <i>E 5643</i>	-Mys Lyubvi.	44° 42.4' N 37° 47.3' E	F.R.	66 20	2	Yellow building; 49.	Visible 244°-296°. F.G. 1M on jetties 0.7 mile SSE.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RUSSIA							
19020 <i>E 5643.5</i>	-Mole, head.	44° 43.3' N 37° 49.3' E	F.G.	36 11	2	White round metal column; 16.	
19021 <i>E 5642.3</i>	-Pier, head.	44° 43.4' N 37° 48.6' E	F.R.		1		
19022 <i>E 5642.4</i>	-Wharf, SE. corner.	44° 43.4' N 37° 48.8' E	Fl.R. period 3s		1		
19023 <i>E 5642.5</i>	-Wharf, S. corner.	44° 43.4' N 37° 48.9' E	Fl.G. period 3s		1		
19024 <i>E 5642</i>	-Range, front, Vostochnyy Mol, head.	44° 43.3' N 37° 48.1' E	Iso.G. period 3s	79 24	10	Round concrete tower, red and white bands; 70.	Nautophone: 5 bl. ev. 60s. (bl. 3s, si. 4s, bl. 8s, si. 4s, bl. 8s, si. 4s, bl. 8s, si. 4s, bl. 2s, si. 15s).
			Iso.G. period 3s	52 16	10		Visible on range line only.
19028 <i>E 5642.1</i>	- Rear , 2.85 km. 334°12' from front.	44° 45.2' N 37° 47.1' E	Oc.G. period 6s lt. 4.5s, ec. 1.5s	250 76	16	White square stone structure, red stripe; 44.	Visible 321°42'-346°42'.
19030 <i>E 5642.2</i>	-New Mole, head.	44° 43.1' N 37° 48.3' E	Fl.G. period 3s		2		
19032 <i>E 5644</i>	-W. mole, head.	44° 43.4' N 37° 47.8' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	39 12	4	Red concrete column; 26.	
19034	-Cabotage Mol, NE. corner.	44° 43.3' N 37° 47.1' E	F.G.		1		
19036 <i>E 5653.3</i>	--Spur.	44° 43.3' N 37° 47.1' E	F.G.	23 7	1	White round metal column; 13.	
19040 <i>E 5646.2</i>	-Head of pier, N. of E. mole.	44° 43.7' N 37° 48.2' E	F.G.	29 9	1	Round white metal column; 19.	
19044 <i>E 5645</i>	-"SRZ" Pier, NW. corner.	44° 43.7' N 37° 48.3' E	F.G.	23 7	1	Concrete structure; 20.	
19048 <i>E 5646</i>	-Importnyy Pir, SE. corner, head.	44° 43.7' N 37° 48.2' E	F.G.	30 9	1	White metal column; 20.	
19049 <i>E 5647</i>	-Pier No. "1", NE. corner.	44° 43.8' N 37° 47.5' E	F.G.	23 7	1	White round metal column; 13.	
19051 <i>E 5647.2</i>	--SW. corner.	44° 43.7' N 37° 47.4' E	F.G.	23 7	1	White round metal column; 13.	
19052 <i>E 5652.6</i>	-Cold storage wharf, NE corner.	44° 43.5' N 37° 46.8' E	F.G.	20 6	1	White metal column; 13.	
19056 <i>E 5652.62</i>	-- SW. corner.	44° 43.4' N 37° 46.7' E	F.G.	20 6	1	White metal column; 13.	
19058 <i>E 5653.75</i>	-Pier, N. side.	44° 43.0' N 37° 49.9' E	F.G.	23 7	2	White round metal column; 16.	
19058.2 <i>E 5653.8</i>	-Pier, NW. side.	44° 43.0' N 37° 50.0' E	F.R.	26 8	2	White metal column, red bands; 13.	
19059 <i>E 5653.7</i>	-Pier, SW. elbow.	44° 42.9' N 37° 50.0' E	F.W.	36 11	3	White round metal column; 26.	
19068 <i>E 5654</i>	-Sheskarik Gavan', N. pier.	44° 42.1' N 38° 49.9' E	F.G.	72 22	1	Black rectangular framework tower; 33.	A light is shown at each of N. and S. corners of head of pier and at root.
19072 <i>E 5654.44</i>	--SW. pier, head.	44° 42.0' N 37° 50.0' E	Fl.G. period 6s fl. 1s, ec. 5s	46 14	2	White metal column; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RUSSIA							
GELENDZHIKSHKAYA BUKHTA:							
19076 <i>E 5656</i>	-Gelendzhikskiy Vkhodnoy.	44° 33.1' N 38° 03.0' E	Fl.(2)W. period 15s	92 28	21	White round concrete tower; 40.	Visible 321°-220°. Reserve light range 5M.
19088 <i>E 5660</i>	Mezyb, NW. of river mouth.	44° 30.3' N 38° 07.1' E	Fl.R. period 5s fl. 1s, ec. 4s	61 19	7	Round white metal column; 16.	
19092 <i>E 5664</i>	Mys Idokopas.	44° 24.8' N 38° 13.4' E	Fl.W. period 3s fl. 0.5s, ec. 4.5s	112 34	7	Iron framework pylon; 23.	Visible 290°-119°.
19096 <i>E 5665</i>	Arkhipo Osipovka.	44° 21.4' N 38° 31.2' E	Fl.W. period 3s		15		
19100 <i>E 5666</i>	Dzhubga.	44° 18.3' N 38° 42.4' E	L.Fl.R. period 6s	36 11	15	White round metal hut on masonry base; 10.	Visible 332°-098°. Reserve light Fl.R. 3s 5M.
19104 <i>E 5667.4</i>	Mys Gryaznova.	44° 11.3' N 38° 53.2' E	L.Fl.W. period 7s		20	Beacon.	
TUAPSE:							
19108 <i>E 5668</i>	-Mys Kodosh.	44° 05.5' N 39° 01.9' E	Fl.(3)W. period 14.2s fl. 0.4s, ec. 2.5s fl. 0.4s, ec. 2.5s fl. 0.4s, ec. 8s	203 62	21	White octagonal tower, dwelling; 46.	Visible 313°-129°. Radiobeacon.
19112 <i>E 5670</i>	-Yuzhnyy Mol, head.	44° 05.2' N 39° 04.2' E	Fl.G. period 3s	36 11	2	Green metal framework tower; 20.	
19116 <i>E 5672</i>	-Yugozapadnyy Volnolom, SE. end.	44° 05.2' N 39° 04.0' E	Fl.R. period 3s	43 13	2	Red metal framework tower; 20.	
19120 <i>E 5674</i>	-Novyy Port Entrance Range, front.	44° 05.7' N 39° 04.2' E	F.Bu.	63 19	3	Metal framework structure, trapezoidal daymark; 56.	Visible on range line only.
			F.G.				
19124 <i>E 5674.1</i>	--Rear, about 274 meters 006°30' from front.	44° 05.8' N 39° 04.1' E	F.R.	121 37	4	Metal framework structure, white trapezoidal daymark; 36.	Visible on range line only.
			F.Bu.		3		
			F.G.		3		
19126 <i>E 5682</i>	Ashe.	43° 58.4' N 39° 14.9' E	Fl.W. period 3s fl. 1s, ec. 2s	161 49	10	On building.	Visible 325°-120°.
19128 <i>E 5684</i>	Lazarevskoye.	43° 53.8' N 39° 20.4' E	Fl.W. period 6s fl. 1.5s, ec. 4.5s	315 96	20	Metal framework tower, white rectangular daymark, black stripe; 46.	Visible 323°-130°. Reserve light Fl. 3s 12M. Radar reflector.
19130 <i>E 5685</i>	Mys Uche-Dere.	43° 40.0' N 39° 36.7' E	Fl.W. period 2s fl. 0.2s, ec. 1.8s	105 32	9	Red framework tower on hexagonal pedestal.	
SOCHI:							
19132 <i>E 5686</i>	-Sochi Range, front.	43° 34.3' N 39° 43.0' E	F.R.	120 37	17	White tower, dwelling; 49.	Visible 296°-161°, partially obscured by trees 149°-161°. Radiobeacon.
19136 <i>E 5688</i>	--Rear, 540 meters 356°48' from front.	43° 34.8' N 39° 42.6' E	F.G.	86 26	10	Black metal structure, white triangle, black stripe; 55.	Visible 299°-054° Shown on request.
19140 <i>E 5689</i>	-Severnnyy, N. mole, head.	43° 34.2' N 39° 42.7' E	Fl.R. period 2s	66 20	2	Round tower; 52.	
19144 <i>E 5689.2</i>	--Off head.	43° 34.2' N 39° 42.5' E	F.Bu.				

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RUSSIA							
19148 <i>E 5690</i>	-Yuzhnyy, S. mole, head.	43° 34.2' N 39° 42.8' E	Fl.G. period 2s	43 13	2	Green framework tower; 33.	
19152 <i>E 5687.9</i>	-Entrance Range, front, N. mole, root.	43° 35.0' N 39° 43.0' E	F.G.	43 13	10	White rectangular shield, black center stripe; 33.	Storm signals. Shown on request.
19156 <i>E 5688.1</i>	-W. edge of channel Range, front, N. mole, root.	43° 34.9' N 39° 43.0' E	F.R.	43 13	3	Black metal mast, red triangle, point down; 26.	Lights in line 359°43'.
19160 <i>E 5688.2</i>	-E. edge of channel.	43° 34.9' N 39° 43.0' E	F.R.	43 13	3	Black metal mast, red triangle, point down; 26.	Lights in line 354°12'.
REYD ADLER:							
19164 <i>E 5698</i>	-Mys Adlerskiy.	43° 25.3' N 39° 55.3' E	Fl.(2)R. period 8s fl. 1s, ec. 2s fl. 1s, ec. 4s	35 11	13	Metal framework tower, white lantern, red stripe; 24.	Visible 330°-130°. Reserve light Al.Fl.R.G. 8.6s 11M. Radar reflector.
GEORGIA							
19168 <i>E 5700</i>	Leselidze.	43° 23.1' N 40° 01.3' E	Fl.R. period 4.5s fl. 1.5s, ec. 3s	95 29	10	Lantern on white chimney with ladder and platform; 79.	Visible 285°-094°. Radar reflector.
GAGRINSKIY REYD:							
19172 <i>E 5706</i>	-Gagrinskiy.	43° 19.7' N 40° 12.9' E	Fl.(2)W. period 5s	262 80	18		Visible 341°18'-105°30'.
19176 <i>E 5708</i>	-Range, front.	43° 19.5' N 40° 13.6' E	F.R.		3		
19180 <i>E 5708.1</i>	--Rear, 026° from front.	43° 19.5' N 40° 13.6' E	F.R.		3		
19192 <i>E 5718</i>	Mys Pitsunda.	43° 08.8' N 40° 20.6' E	Fl.(2)W. period 10.2s fl. 0.2s, ec. 2.1s fl. 0.2s, ec. 7.7s	118 36	19	White framework tower; 101.	Visible 269°-150°. Radiobeacon.
19200 <i>E 5721</i>	Bambora.	43° 05.6' N 40° 35.4' E	Fl.W. period 3s fl. 1s, ec. 2s	125 38	16	Lantern on roof of building; 115.	Visible 275°-085°.
19204 <i>E 5724</i>	Gudauty, W. end of village.	43° 05.9' N 40° 38.0' E	Fl.(2)R. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	53 16	6	Framework structure, red hut, white stripe, surmounted by a rectangular shield, white stripe; 13.	Visible 308°-041°.
19206 <i>E 5724.5</i>	Novyy Afon.	43° 05.1' N 40° 49.1' E	Oc.W. period 6s lt. 4s, ec. 2s	108 33	10	On roof of building; 72.	Visible 282°-093°.
19208	Novo Afonskogo, monastery, pier, head.	43° 05.0' N 40° 51.0' E	2 F.W.	35 11			Shown when regular steamships are due.
19209 <i>E 5725</i>	Eshera.	43° 00.9' N 40° 56.2' E	L.Fl.W. period 6s fl. 2s, ec. 4s	108 33	14	On roof of building; 89.	Visible 332°-130°.
SUKHUMI:							
19212 <i>E 5726</i>	-Mys Sukhumskiy.	42° 58.5' N 40° 58.0' E	L.Fl.(2)W. period 15s fl. 3s, ec. 3s fl. 3s, ec. 6s	121 37	17	White round metal tower; 111.	Visible 236°42'-115°42', faintly to 127°.
19214 <i>E 5727</i>	-Middle pier Range, front.	42° 59.8' N 41° 01.4' E	F.G.	46 14	3	White triangle over white pentagon daymark, on roof; 19.	Visible on range line only. Bell.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GEORGIA							
19214.1 <i>E 5727.1</i>	--Rear, 120 meters 352°48' from front.	42° 59.9' N 41° 01.4' E	F.G.	56 17	3	Mast, white pentagon daymark; 49.	Visible on range line only.
19216 <i>E 5728</i>	-Range, front, SE. extremity of facade of fort, front.	42° 59.9' N 41° 01.2' E	F.R.	43 13	4	Metal post, red daymark, white stripe; 36.	Visible on range line only. Storm signals.
19220 <i>E 5728.1</i>	--Rear, 95 meters 285°36' from front.	42° 59.9' N 41° 01.2' E	F.R.	52 16	4	Metal post, red daymark, white stripe; 33.	Visible on range line only.
19228 <i>E 5734</i>	Mys Kodori.	42° 50.8' N 41° 06.4' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	75 23	13	Black 4-sided framework tower, white rectangular daymark with black median stripe and black border.	Visible 330°-170°. Radar reflector.
19232 <i>E 5736</i>	Akhail Kindgi.	42° 47.2' N 41° 17.6' E	Oc.W. period 12s		12		Visible 325°-090°.
OCHAMCHIRE:							
19236 <i>E 5742</i>	-Ochamchire.	42° 40.7' N 41° 28.8' E	Fl.W. period 3s fl. 1s, ec. 2s	65 20	13	White framework tower; 59.	Visible 344°-157°.
19252 <i>E 5744</i>	Gagida.	42° 31.0' N 41° 31.9' E	Fl.W. period 2s	49 15	10	White rectangular framework tower; 39.	Visible 354°-172°.
19256 <i>E 5746</i>	Anaklia, Reka Ingur entrance.	42° 23.6' N 41° 31.2' E	Iso.W. period 3s	51 16	12	Red square metal tower, white triangular daymark, black stripe, point up; 42.	Visible 330°-161°.
19260 <i>E 5747</i>	Redut-Kale.	42° 16.0' N 41° 37.8' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	48 15	10	Quadrangular tower; 44.	Visible 349°-163°.
POTI:							
19277 <i>E 5762</i>	-Entrance Range, front.	42° 09.6' N 41° 38.9' E	F.R.	56 17	5	White square framework tower, white rectangular daymark, red stripe; 42.	Horn: 2 bl. ev. 54s (bl. 6s, si. 12s, bl. 6s, si. 30s).
19277.1 <i>E 5762.1</i>	--Rear, 300 meters 129° from front.	42° 09.5' N 41° 39.1' E	F.R.	66 20		Square framework tower with gallery, white rectangular daymark, red stripe.	
19280 <i>E 5749</i>	-Inner Range, front, S. mole, root.	42° 09.1' N 41° 39.2' E	F.G.	36 11	6	Orange rectangular daymark, black stripe; 49.	Visible 153°54'-163°54'.
19284 <i>E 5749.1</i>	-- Potiyyskiy , rear, 1.93 km. 158°54' from front.	42° 07.6' N 41° 39.3' E	Al.Fl.W.R. period 7.5s W. fl. 0.2s, ec. 1.6s R. fl. 0.2s, ec. 5.5s	118 36	W. 17 R. 16	White round metal tower, red bands; 121. Floodlit.	Visible 268°-167°, 170°-207°.
19288 <i>E 5760</i>	-Outer breakwater, head.	42° 09.6' N 41° 38.8' E	Fl.W.G. period 3s fl. 0.5s, ec. 2.5s	43 13	W. 7 G. 4	Round silver metallic tower; 26.	W. 012°30'-116°, G.-012°30'.
19292 <i>E 5762</i>	-N. breakwater, extremity.	42° 09.6' N 41° 38.9' E	F.R.	56 17	5	White square framework tower, white rectangular daymark, red stripe; 42.	Horn: 2 bl. ev. 54s (bl. 6s, si. 12s, bl. 6s, si. 30s).
19296 <i>E 5762.2</i>	-N. breakwater, S. spur, head.	42° 09.2' N 41° 38.7' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	23 7	1		
19300 <i>E 5763</i>	-Near center of harbor.	42° 09.1' N 41° 38.7' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	23 7	1	White octagonal tower; 16.	
19304 <i>E 5761</i>	-Elbow of breakwater, W. side of entrance.	42° 08.9' N 41° 38.6' E	Fl.Bu. period 4s fl. 0.5s, ec. 3.5s	23 7	3	White iron framework structure; 16.	Visible 163°12'-003°12'.
19312 <i>E 5763.44</i>	Grigoleti.	42° 02.2' N 41° 44.3' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	39 12	8	Orange quadrangular, white stripe on red tower; 30.	Visible 345°-152°

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GEORGIA							
19313 <i>E 5763.6</i>	<i>Supsa SPM.</i>	42° 01.8' N 41° 42.4' E	Mo.(U)W. period 15s		10		Horn: Mo.(U) ev. 30s.
	RACON						
19314 <i>E 5764</i>	Natanebi.	41° 58.1' N 41° 45.8' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	49 15	7	Metal framework structure, white rectangular shield, red stripe; 39.	Visible 357°-166°.
19320 <i>E 5765</i>	Kobuleti.	41° 51.1' N 41° 46.7' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	121 37	15	Lantern on building; 98.	Visible 018°-185°.
	BATUMI:						
19324 <i>E 5768</i>	-Bukhta Batumiyskaya, on Mys Burun Tabiya.	41° 39.0' N 41° 38.1' E	Fl.(2)R. period 6s fl. 0.2s, ec. 1.3s fl. 0.2s, ec. 4.3s	65 20	14	White octagonal masonry tower, dwelling; 57.	Visible 065°-310°. Nautophone: 5 bl. ev. 60s. Radiobeacon.
19328 <i>E 5772</i>	-Petroleum Harbor Range, front, mole, head.	41° 38.6' N 41° 38.6' E	F.W.R.G.	42 13	11	White circular tower, black bands; 36.	W. 020°-149°, G.-176°, R.-260°.
19332 <i>E 5772.1</i>	--Rear, 1,300 meters 172°24' from front.	41° 38.3' N 41° 39.1' E	Fl.R. period 2.5s fl. 0.5s, ec. 2s	130 40	12	Black square truncated pyramid; 16.	Visible on range line only.
19334 <i>E 5773</i>	- Range, front.	41° 39.0' N 41° 39.0' E	F.Bu.	72 22	4	White metal framework structure, black rectangular daymark, white stripe; 62.	Visible on range line only.
19334.1 <i>E 5773.1</i>	-- Rear, 330 meters 166°18' from front.	41° 38.8' N 41° 39.1' E	F.Bu.	85 26	4	White metal framework structure, black rectangular daymark, white stripe; 79.	Visible on range line only.
19335 <i>E 5773.6</i>	- Range, front.	41° 39.2' N 41° 38.6' E	F.R.	75 23	4	White metal framework structure, black double-trapezoidal daymark, white stripe; 66.	Visible on range line only.
19335.1 <i>E 5773.61</i>	-- Rear, 260 meters 261°24' from front.	41° 39.1' N 41° 38.5' E	F.R.	105 32	4	White metal framework structure, black triangular daymark, white stripe; 95.	Visible on range line only.
19336 <i>E 5770</i>	-Near root of Mys Burun Tabiya Mole, 210 meters 320° from Bukhta Batumyskaya.	41° 39.4' N 41° 38.4' E	Fl.G. period 5s fl. 1.5s, ec. 3.5s	82 25	2	Gray metal framework tower; 39.	Visible 108°-294°.
19338 <i>E 5774</i>	-Coaster Harbor, entrance.	41° 39.1' N 41° 39.7' E	F.R.	26 8	3	Brown metal framework tower; 20.	
19340 <i>E 5776</i>	Chorokh, entrance.	41° 36.7' N 41° 33.5' E	Fl.R. period 9s fl. 1.5s, ec. 7.5s	43 13	6	Red framework tower, white quadrangular daymark, black stripe; 33.	Visible 015°-205°.
19344 <i>E 5779</i>	Boundary Range, front.	41° 31.3' N 41° 33.0' E	Q.W.R.G.	105 32	W. 14 R. 12 G. 12	Black metal pylon, orange rectangular daymark, white stripe; 66.	W. 027°-095°, R.-105°, W.-115°, G.-125°, W.-190°. Reserve light range 12-6M.
19348 <i>E 5779.1</i>	--Rear, about 288 meters 110° from front.	41° 31.2' N 41° 33.2' E	Oc.W. period 4s lt. 3s, ec. 1s	194 59	14	White 4-sided metal tower, white daymark, red stripe; 98.	Visible 108°30'-111°30'.
TURKEY-BLACK SEA							
19352 <i>E 5780</i>	Hopa.	41° 22.0' N 41° 20.5' E	Fl.(2)W. period 15s fl. 0.4s, ec. 4.6s fl. 0.4s, ec. 9.6s	75 23	18	White round tower, dwelling; 39.	
19357 <i>E 5780.5</i>	-Outer breakwater, head.	41° 25.2' N 41° 25.8' E	Fl.G. period 3s	39 12	10		
19360 <i>E 5780.6</i>	-Lee breakwater.	41° 24.9' N 41° 26.1' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	39 12	10	Concrete tower.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TURKEY-BLACK SEA							
19362 <i>E 5781.1</i>	Ardesen, breakwater, head.	41° 12.0' N 40° 59.6' E	Fl.G. period 5s fl. 1s, ec. 4s	36 11	7	Concrete tower; 23.	
19362.5 <i>E 5781.2</i>	-Inner breakwater, head.	41° 11.8' N 40° 59.5' E	Fl.R. period 5s fl. 1s, ec. 4s	33 10	7	Concrete tower; 20.	
19364 <i>E 5781</i>	Pazar.	41° 11.0' N 40° 52.5' E	Fl.W. period 5s	52 16	10	White metal framework tripod; 10.	
19365 <i>E 5780.7</i>	-N. breakwater, head.	41° 10.9' N 40° 54.7' E	Fl.G. period 3s	39 12	5		
19365.5 <i>E 5780.8</i>	-S. breakwater, head.	41° 10.9' N 40° 54.6' E	Fl.R. period 3s	39 12	5		
RIZE:							
19368 <i>E 5782</i>	-Pirys Burna.	41° 02.3' N 40° 30.2' E	Fl.W. period 5s	51 16	10	Iron framework tower on white hut.	
19380 <i>E 5782.8</i>	Surmene, W. mole.	40° 55.1' N 40° 11.3' E	F.G.	33 10	4	White metal pylon; 19.	Fishing light.
19384 <i>E 5783</i>	Arakli Burnu.	40° 57.5' N 40° 02.5' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	115 35	8	White metal framework tower; 13.	
19385 <i>E 5782.9</i>	-N. breakwater, head.	40° 56.9' N 40° 03.3' E	Fl.G. period 5s	33 10	5		
19385.5 <i>E 5782.95</i>	-S. breakwater, head.	40° 57.0' N 40° 03.1' E	Fl.R. period 5s	33 10	5		
19388 <i>E 5784</i>	Trabzon.	41° 00.5' N 39° 44.2' E	Fl.(2)W. period 15s fl. 1.5s, ec. 3s fl. 1.5s, ec. 9s	102 31	17	White metal framework structure on tankhouse; 19.	
19392 <i>E 5785</i>	-N. breakwater, head.	41° 00.4' N 39° 45.0' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	36 11	5	White concrete tower; 16.	
19400 <i>E 5785.6</i>	--East.	41° 00.3' N 39° 44.9' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	30 9	10	Framework tower.	
19404 <i>E 5787</i>	Incir Limani, pier, head.	41° 06.4' N 39° 25.4' E	Fl.G. period 3s	36 11	4	Metal tower.	
19408 <i>E 5786</i>	Isikli Burnu , near extremity.	41° 06.4' N 39° 25.3' E	Fl.W. period 10s	98 30	18	White stone tower, dwelling; 26.	
19412 <i>E 5787.5</i>	Eynesil.	41° 04.8' N 39° 09.8' E	Fl.W. period 10s fl. 1s, ec. 9s	98 30	10	Metal framework tower.	
19416 <i>E 5787.8</i>	Gorele, mole, head.	41° 02.2' N 39° 00.2' E	F.G.	33 10	4	White metal pylon; 19.	Fishing light.
19420 <i>E 5788</i>	Tirebolu , Kale Burnu.	41° 00.5' N 38° 49.3' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	102 31	18	White framework tower; 26.	
19424 <i>E 5789</i>	Cam Burnu.	40° 58.4' N 38° 38.5' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	54 16	12	Metal framework tower; 20.	
19428 <i>E 5790</i>	Giresun.	40° 55.4' N 38° 23.4' E	Fl.W. period 15s fl. 1.5s, ec. 13.5s	364 111	18	White metal framework tower; 39.	
19432 <i>E 5791</i>	-N. breakwater.	40° 55.4' N 38° 22.7' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	29 9	7	Concrete tower; 19.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TURKEY-BLACK SEA							
19436 <i>E 5792</i>	-S. breakwater.	40° 55.2' N 38° 22.9' E	Fl.G. period 6s fl. 0.3s, ec. 5.7s	29 9	9	Concrete tower; 20.	
19440 <i>E 5789.4</i>	Piraziz Burnu.	40° 57.0' N 38° 09.0' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	98 30	8	White metal framework tower; 33.	
19444 <i>E 5793</i>	Ordu (Piramet).	41° 01.0' N 37° 51.1' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	56 17	10	Masonry tower.	
19446 <i>E 5793.5</i>	Persembe.	41° 04.9' N 37° 46.4' E	F.G.	33 10	4	Concrete tower; 20.	Fishing light.
19448 <i>E 5794</i>	Cam Burnu.	41° 07.0' N 37° 47.3' E	Fl.W. period 10s fl. 1s, ec. 9s	127 39	18	White stone tower on hut; 20.	
19450 <i>E 5794.4</i>	Mersin, breakwater.	41° 07.0' N 37° 45.9' E	F.R.	36 11	3		F.G. 3M shown on opposing breakwater.
19452 <i>E 5795</i>	Yasun Burnu, on extremity.	41° 08.0' N 37° 41.0' E	Fl.(2)W. period 15s	36 11	8	White framework tower, stone base; 23.	
19456 <i>E 5796</i>	Fatsa Limani, on Fatsa Banki.	41° 03.7' N 37° 30.7' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	20 6	10	White metal framework tower, concrete base; 16.	
19457 <i>E 5796.2</i>	-Shelter mole, head.	41° 02.7' N 37° 29.8' E	Fl.G. period 5s fl. 1s, ec. 4s	30 9	8	White concrete tower; 16.	
19457.5 <i>E 5796.4</i>	-Secondary mole, head.	41° 02.5' N 37° 29.6' E	Fl.R. period 5s fl. 1s, ec. 4s	30 9	8	White concrete tower; 16.	
19460 <i>E 5798</i>	Unye, on Tashane Burun.	41° 08.5' N 37° 17.7' E	Fl.(2)W. period 6s fl. 0.6s, ec. 1s fl. 0.6s, ec. 3.8s	62 19	10	Iron framework tripod, concrete hut; 13.	
19464 <i>E 5799</i>	Calti Burnu.	41° 15.6' N 37° 01.2' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	39 12	9	Iron framework tower; 33.	
19468 <i>E 5800</i>	Civa Burnu.	41° 21.9' N 36° 41.1' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	76 23	10	White concrete tower; 59.	
19472 <i>E 5801</i>	Azot Sanayi.	41° 14.9' N 36° 27.8' E	F.R.	29 9	4		
SAMSUN:							
19476 <i>E 5803</i>	-E. mole, head.	41° 18.5' N 36° 21.1' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	49 15	10	Concrete tower; 39.	
19480 <i>E 5802</i>	-N. mole.	41° 18.6' N 36° 21.4' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	49 15	10	Concrete tower; 36.	Bell: 1 stroke ev. 2s.
19484 <i>E 5802.2</i>	--Mole.	41° 18.6' N 36° 21.1' E	F.G.	23 7	2	White concrete tower; 9	Visible 291°-111°.
19488 <i>E 5803.4</i>	-Jetty, head.	41° 18.3' N 36° 20.5' E	F.R.	17 5	2	White concrete tower; 9.	
19492 <i>E 5805</i>	Incir Burnu.	41° 37.2' N 36° 06.7' E	Fl.(3)W. period 12s	46 14	13	White framework pylon; 39.	
19496 <i>E 5806</i>	Bafra Burnu.	41° 43.6' N 35° 56.5' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	82 25	20	White iron skeleton tower; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TURKEY-BLACK SEA							
19500 <i>E 5806.5</i>	Yakakent, E. mole.	41° 38.7' N 35° 30.3' E	F.G.	36 11			
19504 <i>E 5806.6</i>	-W. mole.	41° 38.5' N 35° 30.2' E	F.R.	26 8			
19508 <i>E 5807</i>	Gerze. Kosk Burnu.	41° 48.4' N 35° 12.5' E	Fl.(2)W. period 3s fl. 0.3s, ec. 1s fl. 0.3s, ec. 1.4s	49 15	6	White concrete tower; 20.	
19512 <i>E 5808</i>	Sinop, on Boztepe Burnu.	42° 01.3' N 35° 12.5' E	Fl.(2)W. period 15s fl. 1s, ec. 3s fl. 1s, ec. 10s	351 107	10	White masonry tower; 13.	Siren: 3 bl. ev. 32s.
19516 <i>E 5808.5</i>	-On mole.	42° 01.3' N 35° 08.7' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7	2	Concrete pillar; 16.	
19520 <i>E 5808.4</i>	-Fishing harbor.	42° 01.3' N 35° 09.1' E	F.R.			Column.	F.R. on tower 480 meters N.
19528 <i>E 5809</i>	Ak-Liman.	42° 03.0' N 35° 03.1' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	66 20	6	White concrete tower; 16.	
19532 <i>E 5810</i>	Ince Burun , near extremity.	42° 06.0' N 34° 56.8' E	Fl.(4)W. period 20s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 12s	85 26	18	White masonry tower; 39.	
19536 <i>E 5811</i>	Ayancik, on Usta Burun.	41° 58.5' N 34° 29.5' E	Fl.W. period 5s	89 27	8	White iron skeleton tower on pedestal; 23.	
19544 <i>E 5812</i>	Inebolu, on point.	41° 58.8' N 33° 45.8' E	Fl.W. period 10s fl. 1s, ec. 9s	125 38	11	White iron mast, dwelling; 29.	
19548 <i>E 5813</i>	-N. breakwater, head.	41° 58.9' N 33° 46.4' E	Fl.G. period 3s fl. 1s, ec. 2s	46 14	8	Concrete tower; 23.	
19552 <i>E 5814</i>	-S. breakwater, head.	41° 58.8' N 33° 46.2' E	Fl.R. period 3s fl. 1s, ec. 2s	33 10	8	White concrete tower; 23.	
19556 <i>E 5816</i>	Kerempe Burnu.	42° 01.2' N 33° 20.2' E	L.Fl.W. period 20s fl. 2s, ec. 18s	269 82	20	Tower, white hut; 26.	Siren: 3 bl. ev. 32s.
19560 <i>E 5816.5</i>	Kopekkayasi Burnu.	41° 54.5' N 32° 59.1' E	Fl.(2)W. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	666 203	10	Concrete tower; 23.	
19564 <i>E 5816.55</i>	-N. breakwater, head.	41° 54.1' N 32° 58.4' E	F.R.	23 7	3	Concrete tower.	
19568 <i>E 5816.6</i>	-Sheltered breakwater, head.	41° 54.1' N 32° 59.0' E	Fl.G. period 5s fl. 0.3s, ec. 4.7s	30 9	8	Concrete tower; 30.	
19572 <i>E 5816.7</i>	Kurucasile, on Kapt Suyu.	41° 50.8' N 32° 43.0' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	135 41	8	White tower, concrete base; 26.	
19576 <i>E 5817</i>	Amasra.	41° 45.2' N 32° 23.0' E	Fl.W. period 10s fl. 1s, ec. 9s	252 77	20	White masonry tower, dwelling; 9.	F.R. 3M (prov.) shown from head of mole at harbor entrance (not shown in bad weather).
19580 <i>E 5818</i>	-S. breakwater, head.	41° 44.8' N 32° 23.8' E	Fl.R. period 6s	33 10	10	White metal framework tower; 20.	
19584 <i>E 5817.5</i>	-N. mole, head.	41° 44.9' N 32° 23.9' E	Fl.G. period 6s fl. 0.3s, ec. 5.7s	46 14	10	White round metal tower; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TURKEY-BLACK SEA							
BARTIN LIMANI:							
19588 <i>E 5818.4</i>	-Demirli Burnu.	41° 41.0' N 32° 13.5' E	Fl.(2)W. period 6s fl. 0.8s, ec. 0.8s fl. 0.8s, ec. 3.6s	230 70	15	White concrete tower on concrete base; 33.	
19592 <i>E 5818.5</i>	-N. breakwater, head.	41° 41.3' N 32° 13.4' E	Fl.(2)R. period 5s fl. 0.3s, ec. 1s fl. 0.3s, ec. 3.4s	33 10	10	White concrete tower on concrete base; 23.	
19596 <i>E 5818.6</i>	-S. breakwater, head.	41° 41.2' N 32° 13.6' E	Fl.(3)G. period 10s fl. 0.6s, ec. 0.6s fl. 0.6s, ec. 0.6s fl. 0.6s, ec. 7s	33 10	8	White concrete tower on concrete base; 26.	
19598 <i>E 5818.62</i>	--W. head.	41° 41.1' N 32° 13.5' E	Q.G.	36 11	8	White painted framework tower; 26.	
19604 <i>E 5819</i>	Hisaronu, pier, head.	41° 33.7' N 32° 01.0' E	F.R.	26 8	4	White iron post; 19.	
ZONGULDAK LIMANI:							
19608 <i>E 5820</i>	-Zonguldak Burun.	41° 27.9' N 31° 47.4' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	173 53	20	White masonry tower, dwelling; 29.	
19612 <i>E 5823</i>	-Range, front.	41° 27.6' N 31° 47.3' E	F.Bu.		1	Platform; 46.	
19616 <i>E 5823.1</i>	--Rear, 25 meters 080° 15' from front.	41° 27.6' N 31° 47.3' E	F.Bu.		1	Column; 125.	
19620 <i>E 5822</i>	-W. breakwater, head.	41° 27.6' N 31° 46.9' E	Q.G.	51 16	7	Concrete column; 33.	
19624 <i>E 5821</i>	-N. breakwater, head.	41° 27.6' N 31° 46.8' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	62 19	7	Concrete column; 33.	Signal station at elbow of breakwater.
19632 <i>E 5826</i>	Oluce Burun.	41° 18.8' N 31° 24.0' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	256 78	15	White tower; 29.	Siren: 1 bl. ev. 30s.
EREGLI LIMANI:							
19640 <i>E 5827</i>	-Old Port, W. breakwater, head.	41° 17.0' N 31° 24.1' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	26 8	8	White concrete tower; 16.	Siren: 1 bl. ev. 10s.
19644 <i>E 5827.2</i>	--W. end of E. breakwater.	41° 17.0' N 31° 24.6' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7	3	White concrete tower; 10.	
19648 <i>E 5827.4</i>	--E. end of E. breakwater.	41° 16.9' N 31° 24.8' E	F.R.	10 3	5		
19652 <i>E 5828</i>	-New port (Uzun Kum), outer breakwater, head.	41° 16.3' N 31° 24.8' E	Fl.(2)G. period 5s fl. 0.3s, ec. 1s fl. 0.3s, ec. 3.4s	36 11	7	Concrete tower on hexagonal building; 20.	Radar reflector.
19656 <i>E 5828.2</i>	--Inner breakwater, head.	41° 16.1' N 31° 25.1' E	Fl.(2)R. period 5s fl. 0.3s, ec. 1s fl. 0.3s, ec. 3.4s	23 7	3	Concrete tower on hexagonal building; 9.	
19658 <i>E 5829.3</i>	Akckoca. Kale.	41° 05.2' N 31° 05.8' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	141 43	10	Structure; 36.	Fl.R., F.R., F.G. mark breakwater close E.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TURKEY-BLACK SEA							
19658.5 <i>E 5829.2</i>	-Breakwater, head.	41° 05.5' N 31° 07.2' E	Fl.R. period 5s		5		
			F.G.				
19660 <i>E 5829.5</i>	Sakarya, W. side of river Entrance.	41° 07.7' N 30° 39.2' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	30 9	6	Iron tripod, concrete base; 26.	
19664 <i>E 5830</i>	Kefken Adasi, near W. extremity.	41° 13.0' N 30° 15.5' E	Fl.(3)W. period 15s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 9s	79 24	13	White iron column, dwelling; 33.	Lifeboat station. Nautophone: 2 bl. ev. 20s. Radiobeacon.
19668 <i>E 5830.4</i>	-West mole, head.	41° 12.8' N 30° 15.4' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	26 8	5	Concrete tower; 9.	Visible 125°-177°.
19672 <i>E 5830.2</i>	-East mole, head.	41° 12.8' N 30° 15.7' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	26 8	5	Concrete tower; 16.	
19676 <i>E 5831</i>	Agva, W. of river.	41° 08.5' N 29° 51.5' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	56 17	5	Concrete tower; 13.	
19677 <i>E 5831.4</i>	-Breakwater, head.	41° 08.4' N 29° 51.3' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Concrete tower.	
19678 <i>E 5831.42</i>	--Breakwater, head.	41° 08.0' N 29° 51.0' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Concrete tower.	
19680 <i>E 5832</i>	Sile Burnu.	41° 10.8' N 29° 37.0' E	Fl.W. period 15s fl. 1.5s, ec. 13.5s	197 60	25	White stone tower, black bands; 62.	
19684 <i>E 5832.4</i>	Sile Limani, N. mole, head.	41° 10.8' N 29° 36.0' E	Fl.R. period 5s fl. 1s, ec. 4s	43 13	8	White metal column; 20.	
19688 <i>E 5833</i>	Anadolu Karaburun.	41° 12.9' N 29° 23.4' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	141 43	10	White tripod on round concrete tower; 26.	
19692 <i>E 5834</i>	Esek Adasi.	41° 14.1' N 29° 13.8' E	Fl.R. period 5s fl. 1s, ec. 4s	98 30	10	Metal tripod; 13.	
TURKEY-GREECE							
19696 <i>E 4588</i>	Baba Burnu (T.).	39° 28.8' N 26° 03.9' E	Fl.(4)W. period 20s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 12s	105 32	18	White metal framework tower, concrete base; 33.	
	RACON		K(- • -)				
19700 <i>E 4590</i>	Sivrice Burnu (T.), N. side of Muselim Channel.	39° 28.1' N 26° 14.6' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	52 16	10	White masonry tower; 39.	
19702 <i>E 4590.2</i>	Kucukkuyu, W. breakwater.	39° 32.7' N 26° 36.3' E	F.R.	43 13	3	Concrete tower; 33.	
19702.5 <i>E 4590.25</i>	-E. breakwater.	39° 32.7' N 26° 36.5' E	F.G.	30 9	3	Concrete tower; 20.	
19703 <i>E 4590.4</i>	Altinoluk, breakwater.	39° 33.9' N 26° 44.6' E	F.R.	33 10	3	Concrete tower; 23.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TURKEY-GREECE							
19704 E 4591	Edremit Korfezi (T.), Kara Burnu.	39° 33.5' N 26° 50.1' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	33 10	12	White tower; 33.	
19708 E 4592	-Boz Burun.	39° 26.3' N 26° 48.8' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	115 35	10	Iron framework tower; 33.	
NISOS LESVOS (GR.):							
19712 E 4603	-Plomariou, E. breakwater, head.	38° 58.5' N 26° 22.2' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework column with gallery, green band; 20.	
19716 E 4602	--W. breakwater, head.	38° 58.4' N 26° 22.2' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework column with gallery, red band; 18.	
19720 E 4599	-Nisos Garbia.	39° 04.7' N 26° 04.7' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	76 23	6	Metal column on round hut.	Visible 355°-330°, obscured elsewhere.
19724 E 4600	-Kolpos Kallonis, Skala Polikhniton.	39° 06.1' N 26° 10.1' E	F.R.	23 7	3	Wooden mast, red band.	
19725 E 4600.4	--S. mole, head.	39° 06.1' N 26° 10.1' E	F.G.	23 7	3	White metal column, green band.	
19728	--Saltworks landing, Kallonis pier, head.	39° 12.2' N 26° 14.2' E	2 F.R. (vert.)	19 6	1	White metal column.	Temporarily extinguished (1980).
19732 E 4598	-Nisis Sigri.	39° 12.8' N 25° 49.9' E	Fl.(2)W. period 15s fl. 0.1s, ec. 4.9s fl. 0.1s, ec. 9.9s	174 53	21	Round tower, dwelling; 49.	Visible 352°-207°.
19736 E 4598.2	-Akra Saratsina.	39° 11.4' N 25° 49.9' E	Fl.W.R. period 3s fl. 0.3s, ec. 2.7s	75 23	W. R. 5 3	Hexagonal hut with metal framework; 24.	W. 000°-122°, R.-160°, W.-219°, R.-270°, obsc.-000°.
19740 E 4595	-Akra Molivos.	39° 22.8' N 26° 11.2' E	L.Fl.W.G. period 10s fl. 2.5s, ec. 7.5s	89 27	W. G. 12 8	Round hut.	W. 068°-219°, G.-239°, W.-263°, obscured elsewhere.
19744 E 4596	-Mithimna Molivos, bay, head.	39° 21.8' N 26° 10.2' E	F.R.	39 12	3	Metal column, red band.	
19748 E 4597	--Nisis Gavadhes.	39° 18.1' N 26° 01.4' E	Fl.W. period 2s fl. 0.2s, ec. 1.8s	49 15	4	White metal framework.	
19752 E 4594	-Akra Korakas.	39° 23.3' N 26° 20.5' E	Fl.W.R. period 5s fl. 1s, ec. 4s	43 13	W. R. 11 8	Round hut.	W. 087°-104°, R.-119°, W.-299°, obsc.-087°.
19754 E 4609	-Nisis Panagia.	39° 18.9' N 26° 26.8' E	Fl.W. period 10s fl. 0.5s, ec. 9.5s	75 23	7	White metal framework tower.	
19756 E 4607	-Mitilini, Limin Alri Kastro on promontory.	39° 06.7' N 26° 34.0' E	Fl.(3)W. period 14s fl. 0.4s, ec. 1.6s fl. 0.4s, ec. 1.6s fl. 0.4s, ec. 9.6s	69 21	6	Metal framework on dwelling; 20.	Visible 122°-027°.
19760 E 4607.6	--Breakwater, head.	39° 05.9' N 26° 33.8' E	Fl.G. period 3s fl. 1s, ec. 2s	49 15	7	Concrete hexagonal hut, green bands.	
19761 E 4607.8	--Breakwater, NE. end.	39° 05.9' N 26° 33.7' E	Fl.R. period 3s fl. 0.4s, ec. 2.6s	36 11	5	Metal framework, gallery, metal column, red band; 25.	
19762 E 4607.9	---SW. end.	39° 05.8' N 26° 33.6' E	Q.G.	36 11	4	Metal framework, gallery, metal column, green band; 26.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TURKEY-GREECE							
19764 <i>E 4608.4</i>	--N. side entrance to S. port.	39° 06.3' N 26° 33.6' E	Fl.G. period 1.5s fl. 0.2s, ec. 1.3s	29 9	3	Concrete column on pedestal, green band.	
19768 <i>E 4608</i>	--Notio Limin. side entrance.	39° 06.3' N 26° 33.6' E	Fl.R. period 1.5s	29 9	3	Mast on white house, red roof.	
19770 <i>E 4607.7</i>	--S. mole, head.	39° 05.8' N 26° 33.5' E	Q.R.	16 5	4	Metal framework, gallery, metal column, red band.	
19772 <i>E 4605</i>	-Akra Malea (Aghrilios).	39° 00.5' N 26° 36.7' E	Fl.(2)W. period 12s fl. 1s, ec. 2s fl. 1s, ec. 8s	170 52	9	White pyramid with gallery; 13.	Visible 210°-102°, obscured by shore W. of 060° at distance greater than 8.3 km.
19776 <i>E 4606</i>	-Perama, pier, head.	39° 02.5' N 26° 30.3' E	2 F.R. (vert.)	16 5	2	White metal column.	1 meter apart.
MITILINI STRAIT (T.):							
19780 <i>E 4610</i>	-Gunes Adasi, N. end of strait.	39° 19.7' N 26° 32.5' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	216 66	8	White tripod on stone base; 16.	
19784 <i>E 4611</i>	-Yumurta Adasi.	39° 19.2' N 26° 31.5' E	Iso.R. period 2s	62 19	3	White metal framework tower; 13.	
19788 <i>E 4612</i>	-Ciplakada. Fener Burna.	39° 17.2' N 26° 36.2' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	59 18	8	White iron stand; 13.	
19792 <i>E 4613</i>	-Ayvalik, on Korkut Burnu.	39° 19.0' N 26° 37.8' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	59 18	7	White concrete tower; 29.	
19796 <i>E 4614</i>	-Ayvalik Limani, Dalyan Bogazi, on shoal off S. point of Alibey Adasi.	39° 19.4' N 26° 38.1' E	V.Q.(6)+L.Fl.W. period 15s	16 5	7	S. CARDINAL YB, beacon, topmark.	Maintained by local authorities. Channel into Aybalik marked by 3 Fl.R. lights on N. side and 3 Fl.G. on S. side.
19798 <i>E 4615.3</i>	-Dolap Adasi.	39° 20.8' N 26° 40.5' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	16 5	5	Iron tower; 10.	
19799 <i>E 4615.22</i>	-Alibey Adasi.	39° 19.8' N 26° 39.4' E	F.R.	33 10	3	Concrete tower; 23.	
19799.3 <i>E 4615.24</i>	-Yat Limani.	39° 19.0' N 26° 41.3' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	33 10	5	Concrete tower; 23.	
19799.5 <i>E 4615.26</i>	--Tower.	39° 18.9' N 26° 41.3' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	33 10	5	Concrete tower; 23.	
19800 <i>E 4615.4</i>	-Madra Cayi.	39° 10.3' N 26° 46.0' E	Fl.(4)W. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 8.5s	43 13	7	White framework tower.	
19804 <i>E 4615.5</i>	Dikili, breakwater, SW arm.	39° 04.2' N 26° 53.2' E	F.R.	30 9	3	Mast.	F.R. marks NW arm.
19808 <i>E 4615.6</i>	Adatepe Burnu.	39° 01.2' N 26° 48.2' E	Fl.W.R. period 5s fl. 0.3s, ec. 4.7s	59 18	W. R. 4	White metal framework; 23.	W. shore-102°, R.-120°, W.- 140°, R.-156°, W.-175°, obsc.-shore.
19810 <i>E 4604</i>	Nisis Profilaki.	38° 58.4' N 26° 32.5' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	89 27	6	White round hut.	Visible 200°-075°.
CANDARLI KORFEZI (T.):							
19812 <i>E 4616.2</i>	-Pirasa Adasi, summit.	38° 51.9' N 26° 53.6' E	Fl.W. period 5s	144 44	6	White metal framework tower; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TURKEY-GREECE							
19816 <i>E 4616</i>	-Tavson Adasi.	38° 51.1' N 26° 53.1' E	Fl.(3)W. period 10s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 4s	207 63	15	White tower; 20.	
19822 <i>E 4616.3</i>	-Ilica Burnu.	38° 49.5' N 26° 53.7' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	164 50	9	White metal framework tower; 26.	
19824 <i>E 4616.4</i>	-Aliaga Limani Burun, E. entrance point.	38° 50.2' N 26° 56.7' E	Q.G.	36 11	5	White pylon; 20.	
19825 <i>E 4616.9</i>	-Nemrut Bay, Habas jetty, head.	38° 45.9' N 26° 54.8' E	Fl.R.				
19826 <i>E 4616.92</i>	--Cukurova jetty, head.	38° 45.9' N 26° 55.0' E	F.R.				
19827 <i>E 4617</i>	--Western Pier, head.	38° 45.6' N 26° 55.8' E	F.R.	26 8	3	Mast.	
19828 <i>E 4617.2</i>	-Tank uzerinde.	38° 45.4' N 26° 55.8' E	F.R.	98 30	3	Mast.	
19830 <i>E 4617.6</i>	-Breakwater, W. head.	38° 46.5' N 26° 55.8' E	F.R.		2		
19832 <i>E 4617.5</i>	-Petkim Refinery, breakwater, head.	38° 46.7' N 26° 55.5' E	Fl.R.	23 7	2	Framework tower; 19.	
IZMIR KORFEZI (T.):							
19836 <i>E 4621</i>	-Eski Saip, on Buyukada.	38° 39.9' N 26° 31.2' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	82 25	10	Metal framework tower, concrete base; 33.	
19837 <i>E 4621.2</i>	-Mordogan, W. breakwater, head.	38° 31.1' N 26° 37.7' E	Fl.G. period 5s fl. 1s, ec. 4s		5	Metal framework tower.	
19837.1 <i>E 4621.3</i>	--E. breakwater, head.	38° 31.1' N 26° 37.7' E	Fl.R. period 5s fl. 1s, ec. 4s		5	Metal framework tower.	
19838 <i>E 4617.9</i>	-Aslan Burnu.	38° 44.4' N 26° 44.4' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	131 40	10	Metal tower; 26.	
19840 <i>E 4618</i>	-Foca, Oglak Adasi.	38° 40.6' N 26° 42.7' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	82 25	12	White iron framework tower on pedestal; 20.	
19844 <i>E 4620</i>	--Degirmen Burnu.	38° 40.0' N 26° 44.7' E	Fl.R. period 5s	56 17	8	White metal column on pedestal; 20.	
19848 <i>E 4621.6</i>	-Leventler Limani.	38° 38.2' N 26° 45.2' E	F.R.	26 8	2	Red iron cylinder on pedestal.	
19852 <i>E 4621.62</i>	--Tower.	38° 38.0' N 26° 45.6' E	F.G.	26 8	2	Red tower on pedestal.	
19856 <i>E 4621.5</i>	-Azaplar Kayalari.	38° 37.1' N 26° 44.6' E	Fl.R. period 3s	23 7	4	Concrete tower.	
19860 <i>E 4623</i>	-Cigli Airfield.	38° 31.1' N 27° 00.4' E	Al.Fl.W.G. period 10s	161 49	10	Control tower; 85.	<i>Visibility reported 17M.</i>
19864 <i>E 4622</i>	-Uzun Ada, NE. point.	38° 32.5' N 26° 42.7' E	Fl.(3)W. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	164 50	12	White iron column, framework structure; 20.	A Q.R. light is shown from radio masts, 2.8 km. 150° and 7.4 km. 168° respectively.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TURKEY-GREECE							
19866 <i>E 4622.1</i>	Nergis Island.	38° 38.5' N 26° 41.8' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	39 12	6	Round metal tower; 16.	
19867 <i>E 4622.8</i>	-Camalti pier, head.	38° 25.6' N 26° 56.8' E	F.R.	20 6		Metal mast; 13.	
19868 <i>E 4622.3</i>	Kortas Island.	38° 25.2' N 26° 47.7' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	23 7	6	Round metal tower; 16.	
19870 <i>E 4622.4</i>	Urla.	38° 21.9' N 26° 46.4' E	F.G.	23 7	3	Round metal tower; 16.	
19871 <i>E 4622.7</i>	Guzelbahce.	38° 22.6' N 26° 53.5' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	46 14	14	White tower; 33.	
19876 <i>E 4626</i>	-Izmir, breakwater, N. head.	38° 25.8' N 27° 08.0' E	Q.G.	23 7	2	White column; 20.	
19880 <i>E 4627</i>	--Breakwater, S. head.	38° 25.3' N 27° 07.7' E	Q.R.	23 7	2	White column; 20.	
19884 <i>E 4628</i>	--Port office mole, head.	38° 25.8' N 27° 08.1' E	Q.R.	23 7	2	White column; 20.	
19892 <i>E 4628.7</i>	--W. pier.	38° 27.8' N 27° 09.2' E	F.R.		2		
19896 <i>E 4630</i>	Kara Burnu.	38° 39.6' N 26° 21.7' E	Fl.(4)W. period 20s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 12s	318 97	12	White cylindrical tower, dwelling; 43.	Visible 045°-225°.
NISOS PSARA (GR.):							
19900 <i>E 4632</i>	-Akra Ayios Yeoryiou.	38° 32.3' N 25° 36.5' E	Fl.W. period 10s fl. 0.3s, ec. 9.7s	255 78	25	Round tower and dwelling; 30.	
19904 <i>E 4634</i>	-Ormar Psaron, E. mole, head.	38° 32.4' N 25° 34.1' E	Fl.R. period 1.5s fl. 0.2s, ec. 1.3s	23 7	3	Hexagonal hut with tower, red band.	Visible 025°-352°.
19905 <i>E 4634.5</i>	-Limena Psaron, inner mole, head.	38° 32.4' N 25° 33.9' E	F.R.	16 5	3	White metal column, red band.	
NISOS KHIOS (GR.):							
19908 <i>E 4638</i>	-Nisis Gevtis.	38° 36.4' N 26° 01.6' E	Fl.(3)W. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	108 33	11	Round hut.	Visible 087°-293°.
19911 <i>E 4650.2</i>	-Ormos Volissos, outer mole, head.	38° 28.0' N 25° 55.1' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal column with gallery on metal framework, red band.	
19911.5 <i>E 4650.1</i>	--Inner mole, head.	38° 28.1' N 25° 55.1' E	Fl.R. period 1.5s fl. 0.2s, ec. 1.3s	26 8	3	Metal column with gallery on metal framework, red band.	
19912 <i>E 4650</i>	--E. mole, head.	38° 28.1' N 25° 55.2' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal column with gallery on metal framework, green band.	
19916 <i>E 4649</i>	-Mesta, on Akra Oura.	38° 18.0' N 25° 55.0' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	43 13	7	Metal framework on square hut; 13.	Visible 073°-322°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TURKEY-GREECE							
19920 <i>E 4649.4</i>	--Inner harbor, starboard hand.	38° 17.8' N 25° 55.6' E	Q.G.	33 10	2	Square metal hut, green band.	Visible 212°-032°.
19924 <i>E 4649.6</i>	---Port hand.	38° 17.7' N 25° 55.7' E	Q.R.	29 9	2	White hexagonal hut, red band.	Visible 357°-193°.
19928 <i>E 4640</i>	-Vrakonisi Margariti, entrance to Ormos Marmaro.	38° 33.6' N 26° 07.0' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	102 31	5	Metal framework on round hut.	
19930 <i>E 4640.5</i>	--Kardamyla, pier, head.	38° 32.7' N 26° 06.6' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	16 5	3	Metal column with gallery on metal framework; 13.	
19932 <i>E 4642</i>	-Vrakhonisis Strovilo.	38° 33.3' N 26° 09.8' E	Fl.W. period 5s fl. 1s, ec. 4s	239 73	10	Round hut.	Visible 116°-006°.
-Nisoi Oinoussai:							
19936 <i>E 4652</i>	--Prasso, summit.	38° 31.5' N 26° 11.0' E	Fl.(2)W.R. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	55 17	W. R. 6 4	White hut; 13.	W. 323°-301°, R.-323°.
19940 <i>E 4653</i>	--Mandhraki.	38° 30.6' N 26° 13.2' E	Fl.W. period 2s fl. 0.2s, ec. 1.8s	66 20	4	Concrete hexagonal hut with column.	Visible 154°-113°.
19944 <i>E 4653.2</i>	--Breakwater, head.	38° 30.8' N 26° 13.1' E	Q.G.	30 9	3	White concrete column, green band.	
19948 <i>E 4653.3</i>	--S. mole, head.	38° 30.6' N 26° 13.2' E	Q.R. period 1s fl. 0.1s, ec. 0.9s	30 9	3	White hexagonal hut with column and gallery with red band.	
19952 <i>E 4643</i>	-Ormos Kolokithias, Langadha, on point.	38° 28.8' N 26° 07.6' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework, gallery, metal column, green band; 13.	
KHIOS STRAIT:							
19956 <i>E 4644</i>	-Limni Khiou, N. breakwater, spur.	38° 22.4' N 26° 08.5' E	2 F.Y. (vert.)	56 17	5	Mast, triangular daymark, point down.	1 meter apart. Visible 302°-322°.
19960 <i>E 4643.5</i>	--N. breakwater, head.	38° 22.2' N 26° 08.7' E	Fl.G. period 3s fl. 1s, ec. 2s	30 9	12	White hexagonal hut, gallery, column, green band; 25.	
19964 <i>E 4646</i>	--S. breakwater, head.	38° 22.1' N 26° 08.5' E	Fl.R. period 3s fl. 1s, ec. 2s	30 9	12	Concrete column on pedestal, red band.	
19968 <i>E 4654</i>	-Nisis Pasha.	38° 30.1' N 26° 17.7' E	Fl.(2)W. period 20s fl. 1s, ec. 3s fl. 1s, ec. 15s	226 69	11	Round tower, dwelling; 26.	Visible 140°-025°.
19972 <i>E 4655</i>	-Toprak Ada (T.), summit.	38° 23.3' N 26° 16.4' E	Fl.W. period 10s fl. 1s, ec. 9s	79 24	7	Metal tower; 13.	
19973 <i>E 4655.2</i>	-Dalyan.	38° 21.5' N 26° 19.1' E	Fl.W. period 5s fl. 1s, ec. 4s	33 10	7	Metal tower.	
19974 <i>E 4656.4</i>	--Altin Yunus, Yacht harbor, breakwater, head.	38° 19.5' N 26° 20.8' E	F.G.	13 4			
19975 <i>E 4656.6</i>	--Breakwater, head.	38° 19.5' N 26° 20.8' E	F.R.	13 4			
19976 <i>E 4657</i>	-Cesme Korfezi (T.), Fener Burnu.	38° 19.3' N 26° 16.9' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	33 10	8	White tower; 13.	Shows very faintly when bearing more than 236°. Fl.W. on TV tower 0.86 mile NE.
19980 <i>E 4656</i>	--Kaloyeri (T.), on reef.	38° 19.8' N 26° 16.1' E	Q.R.	30 9	5	Masonry tower; 30.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TURKEY-GREECE							
19984 <i>E 4658</i>	-Fener Adasi (T.), summit.	38° 17.5' N 26° 11.7' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	137 42	10	White masonry tower; 26.	
19988 <i>E 4659</i>	Alacat, Korfezi (T.), Bozalan Burnu.	38° 13.5' N 26° 23.4' E	Fl.(2)W. period 5s fl. 0.3s, ec. 1s fl. 0.3s, ec. 3.4s	108 33	6	White framework tower; 26.	
19990 <i>E 4655.5</i>	Ufak Island (T.), N. point.	38° 23.5' N 26° 25.8' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	33 10	8		
19992 <i>E 4648</i>	Nisis Venetiko (Gr.), S. coast of Nisos Khios.	38° 07.6' N 26° 00.8' E	Fl.(2)W. period 15s fl. 1s, ec. 2s fl. 1s, ec. 11s	256 78	12	Round hut.	Obscured by the high ground of Nisos Khios 132°-217°.
19996 <i>E 4661</i>	Teke Burnu (T.), W. entrance point of Sigacik Korfezi.	38° 06.2' N 26° 35.7' E	Fl.(3)W. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	125 38	10	White framework iron tripod tower; 26.	
19998 <i>E 4661.5</i>	Esek Adasi.	38° 12.1' N 26° 46.2' E	Fl.W. period 10s fl. 1s, ec. 9s	30 9	5	Steel framework mast; 20.	
19998.5 <i>E 4661.6</i>	-Sigacik Limani, N. breakwater, head.	38° 11.7' N 26° 46.9' E	Fl.R.	13 4	2		
20000 <i>E 4662</i>	Doganbey Adasi.	38° 01.2' N 26° 52.6' E	Fl.(2)W. period 5s fl. 0.3s, ec. 1s fl. 0.3s, ec. 3.4s	167 51	7	White lattice mast.	
20004 <i>E 4664</i>	Kusadasi (T.), NW. point of Guvercin Adasi.	37° 51.8' N 27° 14.8' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	65 20	8	White concrete tower and dwelling; 26.	
20008 <i>E 4664.4</i>	-Yacht harbor, W. breakwater, head.	37° 52.1' N 27° 15.6' E	Fl.R. period 5s fl. 0.3s, ec. 4.7s	39 12	5	Concrete tower.	
20012 <i>E 4664.3</i>	--E. breakwater, head.	37° 52.1' N 27° 15.7' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	30 9	5	Concrete tower.	
20016 <i>E 4665</i>	Baytak Adasi (T.).	37° 41.6' N 27° 01.1' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	75 23	8	White stone tower; 23.	
20018 <i>E 4665.05</i>	Tarsan Adasi.	37° 39.1' N 27° 00.1' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	98 30	9	Framework pylon on concrete base; 26.	
NISOS SAMOS (GR.):							
20020 <i>E 4683</i>	-Limin Karlovasi, S. breakwater, head.	37° 47.8' N 26° 40.9' E	Fl.R. period 4.5s fl. 0.5s, ec. 4s	23 7	4	White hexagonal hut, concrete column, red band; 21.	
20028 <i>E 4680</i>	--Akra Pangosi, W. side of entrance to port.	37° 47.6' N 26° 40.7' E	Fl.W. period 5s fl. 1s, ec. 4s	98 30	11	Metal column with gallery on round hut.	
20030 <i>E 4665.9</i>	-Akra Kokkari.	37° 46.9' N 26° 53.6' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework, gallery, metal column, green band.	
20031 <i>E 4667</i>	-Vathi, mole, head.	37° 45.3' N 26° 58.2' E	Fl.R. period 3s fl. 0.4s, ec. 2.6s	36 11	4	White hexagonal hut, column, gallery, red band; 25.	
20031.5 <i>E 4667.1</i>	-Limenas Samou, E. breakwater, head.	37° 45.3' N 26° 58.6' E	F.R.	20 6	3		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TURKEY-GREECE							
20031.6 <i>E 4667.2</i>	--W. breakwater, head.	37° 45.3' N 26° 58.5' E	F.G.	20 6	3		
20032 <i>E 4666</i>	-Akra Kotzikas.	37° 47.2' N 26° 57.1' E	Fl.(2)W. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	200 61	7	Concrete tower; 13.	
20036 <i>E 4669</i>	-Akra Gatos.	37° 43.4' N 27° 04.1' E	Fl.(3)W. period 14s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 10.7s	52 16	7	Metal framework on round hut; 13.	Visible 180°-333°.
20040 <i>E 4670</i>	--Akra Fonias.	37° 41.3' N 26° 57.2' E	Fl.W. period 4s fl. 0.4s, ec. 3.6s	49 15	5	White square hut with 2 columns; 20.	
20044 <i>E 4674</i>	--S. breakwater, head.	37° 41.3' N 26° 57.0' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	23 7	3	Metal framework; 13.	
20048 <i>E 4676</i>	-Inner Harbor, mole, head.	37° 41.4' N 26° 56.8' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	20 6	3	Concrete hexagonal hut, green band; 13.	
20050 <i>E 4677</i>	-Limnonaki Bay.	37° 39.7' N 26° 46.8' E	Fl.G. period 2s fl. 0.1s, ec. 1.9s	23 7	3	White round hut, green band.	
20052 <i>E 4678</i>	-Akra Ayios Dhomenikos.	37° 40.7' N 26° 35.5' E	Fl.W. period 3.6s fl. 0.5s, ec. 3.1s	52 16	5	Metal framework; 16.	
20056 <i>E 4689</i>	-Ormos Fournoi, Akra Sbstokamiyos.	37° 34.5' N 26° 28.3' E	Fl.W.R. period 3.5s fl. 0.5s, ec. 3s	59 18	W. R. 4 3	Metal framework on round hut; 16.	R. 034°-138°, W.-172°, R.-243°, obsc.-034°.
NISIDHES FOURNOI (GR.):							
20060 <i>E 4688</i>	-Akra Malaki.	37° 39.3' N 26° 30.6' E	Fl.(2)W. period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 9.5s	131 40	8	White square hut, metal framework tower; 24.	
20064 <i>E 4687</i>	-Akra Trakhilas.	37° 34.8' N 26° 23.9' E	Fl.(2)W. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 12.5s	151 46	7	Metal column on round hut.	Visible 303°-175°.
20068 <i>E 4690</i>	-Akra Pappas.	37° 30.8' N 25° 58.8' E	Fl.W. period 20s fl. 1.3s, ec. 18.7s	246 75	25	Round tower and dwelling; 36.	Visible 278°-158°.
20070 <i>E 4695</i>	-Limin Kirikou, mole, head.	37° 36.9' N 26° 17.8' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	29 9	4	White round hut, metal framework, red band; 13.	
NISOS IKARIA (GR.):							
20072 <i>E 4694</i>	-Akra Dhrapanon, E. point.	37° 42.3' N 26° 22.0' E	Fl.(3)W. period 24s fl. 1s, ec. 3s fl. 1s, ec. 3s fl. 1s, ec. 15s	118 36	12	Iron framework obelisk, hut.	Visible 095°-358°.
20076 <i>E 4693</i>	-Vrakhonisis Evdhilos.	37° 38.4' N 26° 11.7' E	Fl.W. period 7.5s fl. 0.6s, ec. 6.9s	59 18	11	Metal column on round hut.	Visible 100°-314°.
20078 <i>E 4692.5</i>	-Ormos Evdhilou.	37° 38.0' N 26° 11.0' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	36 11	3	Square hut, metal framework, gallery; 23.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TURKEY-GREECE							
20080 <i>E 4692</i>	-Akra Armenistis (Strephoni).	37° 38.4' N 26° 04.2' E	Fl.(3)W. period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	101 31	11	Beacon.	Visible 058°-269°.
NISOS GAIDHAROS (GR.):							
20084 <i>E 4776</i>	-S. point of island.	37° 26.8' N 26° 57.6' E	Fl.W. period 2s fl. 0.3s, ec. 1.7s	59 18	6	Metal framework tower on pedestal.	Visible 186°-033°. Obscured 308°-329° by Nisis Kounelei.
NISOS PATMOS (GR.):							
20088 <i>E 4771</i>	-Limni Skala, breakwater, head.	37° 19.2' N 26° 32.8' E	Fl.R. period 1.5s	23 7	2	Metal framework on round hut, red band.	
20092 <i>E 4770.6</i>	-Akra Aspri.	37° 19.7' N 26° 33.9' E	Fl.W.R. period 2s fl. 0.3s, ec. 1.7s	46 14	W. R.	5 3 Round hut.	W. 133°-272°, R.-320°, W.-048°.
20096 <i>E 4772</i>	-Akra Ilias.	37° 16.2' N 26° 34.3' E	Fl.(3)W. period 9s fl. 0.3s, ec. 1.5s fl. 0.3s, ec. 1.5s fl. 0.3s, ec. 5.1s	161 49	9	Metal framework on round hut; 13.	Visible 182°-086°.
20100 <i>E 4771.4</i>	-Skopeloi Tragos.	37° 17.4' N 26° 34.8' E	Fl.(2)W.R. period 12s fl. 0.3s, ec. 1.4s fl. 0.3s, ec. 10s	28 9	W. R.	5 3 Metal framework on round hut.	R. 087°-232°, W.-087°.
20104 <i>E 4770</i>	-Akra Geranos, on point.	37° 20.5' N 26° 36.8' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	118 36	7	Metal framework on square hut; 13.	Visible 150°-012°.
20108 <i>E 4768.5</i>	Nisis Anidhro (Gr.).	37° 24.6' N 26° 29.4' E	Fl.W.R. period 6s fl. 0.4s, ec. 5.6s	351 107	W. R.	9 6 White square hut; 11.	R. 090°-100°, W.-090°.
20112 <i>E 4772.6</i>	Nisos Akri (Gr.), on Punta Cisterna.	37° 22.9' N 26° 43.8' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	46 14	5	Metal framework on round hut, red band.	Visible 291°-129°.
20116 <i>E 4774</i>	Nisis Lipsoi (Gr.), Limni Lipso, mole, head.	37° 17.8' N 26° 46.0' E	2 F.R. (vert.)	20 6	6	White iron pillar.	
20117 <i>E 4774.2</i>	-SW. end of pier.	37° 17.8' N 26° 45.8' E	F.R.	16 5	3	White iron pillar, red band.	
20120 <i>E 4773</i>	-Akra Gatto.	37° 17.4' N 26° 44.8' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	88 27	6	Metal framework on round hut.	Visible 243°30'-088°30'.
20124 <i>E 4775</i>	Nisidhes Kalapodhia (Gr.).	37° 15.4' N 26° 48.8' E	Fl.W. period 4s fl. 0.4s, ec. 3.6s	108 33	7	White metal framework tower; 13.	
20128 <i>E 4775.5</i>	Nisis Sarakina (Gr.).	37° 13.8' N 26° 42.0' E	Fl.(2)W. period 8s fl. 0.5s, ec. 1.6s fl. 0.5s, ec. 5.4s	72 22	8	Metal framework on round hut; 16.	
NISOS LEROS (GR.):							
20132 <i>E 4698</i>	-Ormos Alindhas.	37° 09.7' N 26° 51.5' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	53 16	5	Concrete hexagonal hut with column.	Visible 060°-264°.
-Limni Lakki:							
20136 <i>E 4702</i>	--Akra Katsouni.	37° 06.8' N 26° 49.4' E	Fl.(2)W. period 14s fl. 1s, ec. 2s fl. 1s, ec. 10s	223 68	9	Metal pyramid with gallery.	Visible 224°-124°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TURKEY-GREECE							
20140 <i>E 4703</i>	--Akra Angistro.	37° 06.6' N 26° 49.8' E	Fl.W. period 2.5s fl. 0.2s, ec. 2.3s	151 46	5	Round hut, green band.	Visible 345°-105°, 165°-240°.
20144 <i>E 4704</i>	--Lakkion, S. end of pier, head.	37° 07.7' N 26° 51.0' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7	4	Metal framework on round hut, red band; 18.	
20148 <i>E 4705</i>	--Glaronisia.	37° 05.6' N 26° 53.1' E	Fl.W. period 2s fl. 0.3s, ec. 1.7s	46 14	4	White round hut, metal framework; 18.	
20152 <i>E 4700</i>	--Ayios Kiriake.	37° 08.8' N 26° 53.3' E	Fl.(3)W. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	69 21	5	Metal framework on round hut.	Visible 105°-052°.
20156 <i>E 4777</i>	Farmakonisi (Gr.).	37° 16.9' N 27° 05.3' E	Fl.(2)W. period 14s fl. 1s, ec. 2s fl. 1s, ec. 10s	388 118	12	Metal pyramid with gallery.	
MANDALYA KORFEZI (T.):							
20160 <i>E 4665.8</i>	-Tekagac Burnu.	37° 21.3' N 27° 13.1' E	Fl.W. period 15s fl. 1s, ec. 14s	49 15	10	White round concrete tower; 39.	
20162 <i>E 4665.7</i>	Akbuk-Panayir Adasi.	37° 19.7' N 27° 19.7' E	Fl.(3)W. period 15s	115 35	8	Concrete tower; 26.	
20164 <i>E 4665.4</i>	-Gulluk.	37° 14.2' N 27° 35.3' E	Fl.(2)W. period 5s fl. 0.3s, ec. 1s fl. 0.3s, ec. 3.4s	49 15	14	White round concrete tower; 16.	
20165 <i>E 4665.3</i>	-Yilan Ada.	37° 11.9' N 27° 33.0' E	Fl.G. period 5s fl. 1s, ec. 4s	49 15	7		
20166 <i>E 4665.5</i>	-Karaburun Feneri.	37° 13.5' N 27° 31.5' E	Fl.R. period 5s fl. 1s, ec. 4s	59 18	5		
20168 <i>E 4665.6</i>	-Incegol Burnu.	37° 13.7' N 27° 32.1' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	43 13	5	White concrete tower; 20.	
20172 <i>E 4665.2</i>	-Kara Ada, NW. point.	37° 10.7' N 27° 23.1' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	56 17	10	White concrete tower; 20.	
20174 <i>E 4665.25</i>	Gundogan, breakwater.	37° 07.6' N 27° 20.7' E	Fl.G. period 5s fl. 1s, ec. 4s	33 10	5	Metal framework tower.	
20176 <i>E 4708.5</i>	Buyukkiremit Adasi (T.).	37° 05.0' N 27° 14.0' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	292 89	10	White concrete tower; 20.	
20180 <i>E 4708</i>	Kalolimnos (Gr.).	37° 03.6' N 27° 06.2' E	Fl.W. period 3s fl. 0.4s, ec. 2.6s	95 29	7	Metal framework tower on pedestal; 16.	Visible 122°-055°.
NISIS PSERIMOS (GR.):							
20192 <i>E 4711.3</i>	-Nisis Nekrothikes, W. side of island.	36° 57.2' N 27° 05.7' E	Fl.W.R. period 5s fl. 0.5s, ec. 4.5s	75 23	W. 6 R. 4	Metal framework on round hut.	W. 049°-349°, R.-049°.
20196 <i>E 4711</i>	-Akra Rousa, E. point of island.	36° 55.4' N 27° 10.8' E	Fl.(2)W.R. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	141 43	W. 12 R. 9	Round hut.	W. 182°-262°, R.-281°, W.-086°, obsc.-182°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TURKEY-GREECE							
20200 E 4711.5	Nisis Safonidhi (Gr.).	36° 53.1' N 26° 55.3' E	L.FI.W. period 10s fl. 2s, ec. 8s	210 64	9	Metal framework on pedestal; 26.	
20204 E 4708.7	-Catal Ada.	37° 00.7' N 27° 13.4' E	FI.(4)W. period 20s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 12s	157 48	6	White column.	
20205 E 4709	Topan.	37° 00.4' N 27° 10.9' E	FI.W. period 5s fl. 0.3s, ec. 4.7s	177 54	7	Metal framework tower; 26.	
KOS CHANNEL (T.):							
20208 E 4712	-Fener Burnu.	36° 57.9' N 27° 15.9' E	FI.(2)W. period 15s	49 15	14	White stone tower, dwelling; 30.	
BODRUM LIMANI:							
20212 E 4714	-Kargi Ada, on islet.	36° 57.6' N 27° 18.3' E	FI.W. period 5s fl. 0.5s, ec. 4.5s	108 33	8	White column; 26.	
20216 E 4730	-Bodrum, on W. breakwater.	37° 01.8' N 27° 25.6' E	FI.R. period 5s fl. 0.5s, ec. 4.5s	26 8	8	White tower, 23.	
20220 E 4730.4	-E. breakwater, head.	37° 01.8' N 27° 25.6' E	FI.G. period 5s fl. 0.5s, ec. 4.5s	26 8	8	White metal framework tower; 20.	
20222 E 4729	-Haremten.	37° 00.8' N 27° 25.0' E	Q.(6)+L.FI.W. period 15s	20 6	6	S. CARDINAL YB, pile, topmark; 13.	
20224 E 4728	-Kara Ada, on NW. point.	36° 59.7' N 27° 25.5' E	FI.(2)W. period 5s fl. 0.3s, ec. 1s fl. 0.3s, ec. 3.4s	49 15	7	White concrete tower; 26.	
KERME KORFEZI (T.):							
20228 E 4731	-Sanacak Burnu.	37° 01.3' N 27° 58.4' E	FI.W. period 3s fl. 0.3s, ec. 2.7s	20 6	8	White iron tripod; 16.	
20230	-Mersincik Burnu.	36° 50.1' N 28° 00.2' E	FI.W.R. period 3s fl. 0.3s, ec. 2.7s	98 30	W. R. 5	7 White framework tower; 16.	W. 270°-154°, R.-270°.
20231	Orak Adasi.	36° 58.1' N 27° 36.1' E	FI.W. period 10s fl. 1s, ec. 9s	56 17	7	Metal framework pylon; 20.	
20232 E 4731.7	-Ince Burnu.	36° 48.7' N 27° 38.5' E	FI.(2)W. period 5s	184 56	7	Metal framework; 26.	
20236 E 4731.6	-Koyun Burnu.	36° 55.6' N 28° 01.3' E	FI.(3)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	56 17	7	White column; 39.	
20240 E 4731.4	-Sehir Adalari, Orta Ada.	37° 00.0' N 28° 12.3' E	FI.W. period 10s fl. 0.5s, ec. 9.5s	49 15	9	White metal framework tower; 33.	
20244 E 4722	-Akra Ammoglossa.	36° 55.0' N 27° 16.8' E	FI.R. period 4s fl. 0.8s, ec. 3.2s	23 7	9	Metal framework on square hut, red band; 16.	Visible 080°-320°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TURKEY-GREECE							
NISOS KOS (GR.):							
20256 E 4726	-Limn Kos, W. mole, head.	36° 53.9' N 27° 17.3' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	29 9	3	Concrete hexagonal hut with column and gallery, green band.	
20257 E 4726.3	--Entrance, NE end.	36° 53.9' N 27° 17.4' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	30 9	3	Column with gallery on white hut, red band; 26.	
20258 E 4726.4	-Kos Marina, W. mole, head.	36° 53.6' N 27° 18.1' E	Fl.G. period 4s fl. 0.3s, ec. 3.7s	23 7	3	Metal framework, gallery, metal column, green band; 20.	
20258.5 E 4726.5	--E. mole, head.	36° 53.6' N 27° 18.0' E	Fl.R. period 4s fl. 0.3s, ec. 3.7s	23 7	3	Metal framework, gallery, metal column, red band; 20.	
20260 E 4726.6	-Akra Louros.	36° 53.4' N 27° 20.3' E	Fl.(3)W.R. period 15s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 11.7s	30 9	W. 6 R. 4	Metal framework tower on round hut; 23.	W. 130°-060°, R.-130°.
20264 E 4727	-Akra Ayios Fokas.	36° 51.5' N 27° 21.5' E	Fl.W. period 4s fl. 0.4s, ec. 3.6s	75 23	6	Metal framework tower; 20.	
20268 E 4727.6	-Ormos Kamari.	36° 44.2' N 26° 58.4' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	23 7	4	Concrete hexagonal hut with column and gallery, red band; 18.	
20270 E 4727.7	-Mastikhari, mole, head.	36° 51.2' N 27° 04.6' E	Fl.G. period 3s fl. 1s, ec. 2s	33 10	6	White hexagonal hut with column, green band.	
NISIS YIALI (GR.):							
20272 E 4716	-Ayios Andonios.	36° 39.7' N 27° 08.2' E	Fl.W. period 2s fl. 0.3s, ec. 1.7s	46 14	5	Metal framework tower on pedestal.	Visible 217°-110°.
NISOS NISIROS (GR.):							
20276 E 4718	-Mandrakion, small mole, head.	36° 36.8' N 27° 08.3' E	Q.G.	20 6	3	Metal framework tower on pedestal, green band.	Locally maintained.
20280 E 4720	-Akra Palos.	36° 37.2' N 27° 11.2' E	Fl.(2)W. period 9s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 6.2s	92 28	12	White round hut, metal framework; 16.	Visible 100°-319°.
GREECE-DHODHEKANISOI							
NISOS TILOS (GR.):							
20284 E 4721	-Vrakhonisis Gaidharos.	36° 29.1' N 27° 17.1' E	Fl.(2)W. period 16s fl. 1s, ec. 2s fl. 1s, ec. 12s	233 71	10	Metal framework tower on pedestal.	Visible 015°-264°.
20288 E 4721.4	-Ormos Livadhia.	36° 24.8' N 27° 24.2' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	85 26	3	Metal framework tower on pedestal, red band.	Visible 008°-208°.
20292 E 4764	Nisis Kandhelousa (Gr.).	36° 30.0' N 26° 57.5' E	Fl.W. period 10s fl. 0.3s, ec. 9.7s	181 55	17	Round tower and dwelling; 33.	Visible 291°-214°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GREECE-DHODHEKANISOI							
20300 <i>E 4766.2</i>	-Limin Maltezana, pier, head.	36° 34.6' N 26° 23.3' E	FI.G. period 2s fl. 0.3s, ec. 1.7s	20 6	4	Metal framework on white round hut, green band; 16.	
20304 <i>E 4767</i>	-Akra Palli.	36° 34.8' N 26° 20.2' E	FI.W.R. period 3s fl. 0.3s, ec. 2.7s	39 12	W. R. 3	Metal framework on white round hut; 17.	W. 138°-172°, R.-237°, W.-354°.
20308 <i>E 4765</i>	-Akra Floudha.	36° 38.6' N 26° 22.8' E	FI.(2)W. period 14s fl. 1s, ec. 2s fl. 1s, ec. 10s	338 103	12	Metal framework with gallery on white square hut; 24.	
20312 <i>E 4766</i>	-Limin Skala, N. side of entrance.	36° 33.0' N 26° 21.6' E	FI.W.R. period 3s fl. 0.4s, ec. 2.6s	46 14	W. R. 3	White metal framework; 10.	W. 193°-261°, R.-293°, W.-080°.
20313 <i>E 4765.8</i>	-Skala Astipalaia, S.E. quay.	36° 32.9' N 26° 21.4' E	3 F.G. (vert.)	23 7	3	White metal column.	Lights form inverted "L".
20314 <i>E 4765.82</i>	--N.W. Quay.	36° 32.9' N 26° 21.3' E	3 F.G. (vert.)	23 7	3	White metal column.	Lights form inverted "L".
20316 <i>E 4765.7</i>	-Nisis Khondro, E. side.	36° 33.8' N 26° 24.3' E	FI.W. period 4.5s fl. 0.3s, ec. 4.2s	49 15	4	White round hut; 12.	Visible 121°-323°.
20320 <i>E 4765.5</i>	-Akra Poulari.	36° 34.9' N 26° 28.4' E	FI.(2)W. period 9s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 7.2s	102 31	7	White metal framework; 12.	
20324 <i>E 4764.5</i>	Nisis Plakhida.	36° 17.1' N 26° 45.0' E	FI.W.R. period 3s fl. 0.3s, ec. 2.7s	279 85	W. R. 6	Metal framework on round hut.	R. 068°-248°, W.-068°.
20328 <i>E 4760.3</i>	Nisis Astakidha.	35° 52.5' N 26° 49.5' E	FI.W. period 3s fl. 0.5s, ec. 2.5s	190 58	8	Metal framework on round hut; 8.	Visible 199°30'-148°30'.
20332 <i>E 4761</i>	Nisidhes Sofrana.	36° 05.0' N 26° 23.4' E	FI.W. period 10s fl. 0.5s, ec. 9.5s	121 37	10	Metal framework with gallery on square hut.	Visible 065°-300°.
20336 <i>E 4760.7</i>	Ounianisia.	35° 49.6' N 26° 27.8' E	FI.(2)W. period 16s fl. 1s, ec. 2s fl. 1s, ec. 12s	345 105	7	Metal framework on round hut.	
20340 <i>E 4761.3</i>	Kamilonisi.	35° 51.8' N 26° 14.6' E	FI.W. period 3s fl. 0.3s, ec. 2.7s	135 41	5	Metal framework on white round hut; 18.	
NISIS KASOS (GR.):							
20344 <i>E 4761.8</i>	-Emborios.	35° 25.3' N 26° 57.4' E	FI.G. period 1.5s fl. 0.2s, ec. 1.3s	36 11	3	Metal framework with column and gallery, green band.	
20348 <i>E 4762</i>	-Bouka.	35° 25.1' N 26° 55.4' E	FI.R. period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework on white round hut, red band; 17.	
20352 <i>E 4763</i>	--Akra Ayios Yeoryios.	35° 25.3' N 26° 55.6' E	FI.W.R. period 3s fl. 0.3s, ec. 2.7s	92 28	W. R. 3	Metal framework; 10.	R. 083°-175°, W.-241°, R.-251°, W.-257°.
20356 <i>E 4763.5</i>	-Nisis Plati, summit.	35° 21.7' N 26° 49.4' E	FI.W. period 8s fl. 1s, ec. 7s	122 37	9	White round hut.	
20360 <i>E 4763.2</i>	-Akra Aviaki.	35° 20.8' N 26° 50.9' E	FI.W. period 4s fl. 0.6s, ec. 3.4s	89 27	6	Metal framework on round hut; 30.	Visible 278°-208°.
20364 <i>E 4761.5</i>	-Nisis Strongili.	35° 26.4' N 27° 01.0' E	FI.(2)W.R. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	75 23	W. R. 5	Metal column on round hut.	W. 091°-243°, R.-258°, W.-006°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GREECE-DHODHEKANISOI							
NISOS KARPATOS (GR.):							
20366 <i>E 4757</i>	-Akra Kastellos.	35° 23.9' N 27° 08.3' E	Fl.W.R. period 3s fl. 0.5s, ec. 2.5s	39 12	W. R.	7 4	Metal framework. R. 225°-252°, W.-134°, obsc.-225.
20368 <i>E 4757.5</i>	-Foiniki.	35° 29.5' N 27° 07.0' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	30 9		3	Metal framework tower, red band, gallery.
20372 <i>E 4758.4</i>	-Dhiafani.	35° 45.3' N 27° 12.9' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	59 18		4	Metal framework on round hut.
20374 <i>E 4758.45</i>	--Mole, head.	35° 45.4' N 27° 12.8' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7		3	Metal framework tower, red band.
20376 <i>E 4760</i>	-Nisis Saria, Akra Paraspori.	35° 54.3' N 27° 13.7' E	Fl.(2)W. period 16s fl. 1s, ec. 2s fl. 1s, ec. 12s	161 49		12	Metal framework; 20. Visible 066°-288°.
20380 <i>E 4759</i>	-Ormos Tristoma, S. islet.	35° 49.3' N 27° 12.3' E	Fl.R. period 5s fl. 0.7s, ec. 4.3s	39 12		4	Metal framework on white round hut, red band.
20381 <i>E 4758.1</i>	-Limenas Pigadhia, mole, head.	35° 30.6' N 27° 12.9' E	Fl.R. period 4s fl. 0.4s, ec. 3.6s	23 7		3	Metal framework tower with gallery, red band.
20382 <i>E 4758.2</i>	-Nisidha Dhespotiko.	35° 30.9' N 27° 12.7' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	33 10		6	White round hut with metal framework tower.
NISOS NISAKI (GR.):							
20384 <i>E 4739</i>	-Summit of island.	36° 12.8' N 27° 37.5' E	Fl.W.R. period 6s fl. 1s, ec. 5s	246 75	W. R.	8 6	White metal framework with gallery and column; 16. R. 232°-244°, W.-280°, R.-297°, W.-232°.
NISOS RODHOS (GR.):							
20388 <i>E 4756</i>	-Akra Prasonisi.	35° 52.3' N 27° 45.0' E	Fl.(4)W. period 30s fl. 0.1s, ec. 4.9s fl. 0.1s, ec. 4.9s fl. 0.1s, ec. 4.9s fl. 0.1s, ec. 14.9s	200 61		17	Round tower on dwelling; 46. Visible 273°-179°.
20392 <i>E 4740</i>	-Nisis Tragousa, summit of island.	36° 13.0' N 27° 42.1' E	Fl.(2)W.R. period 14s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 11.5s	200 61	W. R.	8 6	White metal framework with gallery and column; 13. R. 112°-125°, W.-112°.
20394 <i>E 4738</i>	--Emporeio Bay.	36° 13.2' N 27° 37.2' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	39 12		6	White metal framework with gallery and column; 13. Visible 175°-045°.
20396 <i>E 4741</i>	-Skala Kamiros.	36° 16.3' N 27° 49.2' E	Fl.W. period 3s fl. 0.4s, ec. 2.6s	66 20		8	Metal framework tower on round hut.
20400	-Rodhos AVIATION LIGHT, airport control tower.	36° 22.5' N 28° 04.7' E	Al.Fl.W.G. period 6s	246 75		15	
20404 <i>E 4742</i>	-Outer end of submarine pipeline.	36° 23.6' N 28° 03.2' E	Fl.(2)R. period 20s	20 6		2	Post. Buoy Q.R. close SW.
20408 <i>E 4743</i>	-Akra Milon (Koum).	36° 27.3' N 28° 13.3' E	Fl.W.R. period 4s fl. 0.4s, ec. 3.6s	36 11	W. R.	6 4	White hexagonal hut with column and gallery. W. 037°-286°, R.-314°, obscured elsewhere.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GREECE-DHODHEKANISOI							
-Limin Rodhos:							
20412 E 4745	--Akra Aoimbakadhartiriou.	36° 27.0' N 28° 13.7' E	Q.R.G.	23 7	3	Metal framework tower on white round hut; 17.	G. 206°-111°, R. elsewhere.
20416 E 4744	--Ayios Nikolaos.	36° 27.0' N 28° 13.7' E	Fl.(2)W. period 12s fl. 1.2s, ec. 3s fl. 1.2s, ec. 6.6s	79 24	11	Lantern on white tower; 20.	
20420 E 4747	--Limin Mandhraki, W. mole, head.	36° 26.9' N 28° 13.6' E	F.G.	17 5	2	Masonry column.	Visible 133°-040°.
20424 E 4746	---E. mole, head.	36° 27.1' N 28° 13.6' E	F.R.	17 5	2	Masonry column.	Visible 335°-244°.
20428 E 4749	--Limin Emborikos (Porto Mercantile), E. breakwater.	32° 26.7' N 28° 14.0' E	Fl.R. period 2s fl. 0.2s, ec. 1.8s	26 8	4	Metal framework on white square hut, red band; 23.	
20432 E 4750	---Breakwater, head.	36° 26.6' N 28° 13.8' E	Fl.G. period 2s fl. 0.2s, ec. 1.8s	36 11	4	Iron framework structure, green band; 16.	
20434 E 4752	--Akantia, E. mole, head.	36° 26.9' N 28° 14.2' E	Fl.R. period 5s fl. 0.8s, ec. 4.2s	33 10	6	Metal framework tower with gallery and red band.	
20440 E 4755	-Vakros Paximadha.	36° 00.8' N 28° 05.6' E	Fl.W.R. period 4s fl. 0.4s, ec. 3.6s	79 24	W. 9 R. 6	Metal column on white round hut; 20.	W. 184°-139°, R.-184°.
TURKEY-SOUTH COAST							
20452 E 4732	Deveboynu Burnu.	36° 41.3' N 27° 21.8' E	Fl.(2)W. period 10s	340 104	14	White stone tower, dwelling; 30.	Visible 315°-183°.
20456 E 4732.5	Ince Burun.	36° 39.6' N 27° 42.8' E	Fl.(3)W. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	46 14	8	White concrete tower; 26.	
20460 E 4733	Som Adasi.	36° 43.5' N 27° 45.9' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	34 10	3	White concrete tower; 16.	
NISOS SIMI (GR.):							
20464 E 4734	-Vrakhonisi Khondros.	36° 39.3' N 27° 49.2' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	82 25	5	Metal framework on white round hut; 20.	
20466 E 4734.2	-Akra Makria, N. point of Nisos Nimos.	36° 39.7' N 27° 51.4' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	52 16	6	White metal framework.	
20468 E 4735.1	-Akra Pedhi (Filonika).	36° 37.1' N 27° 52.7' E	Fl.W. period 6s fl. 0.4s, ec. 5.6s	66 20	4	Metal framework on white round hut; 17.	
20472 E 4735	-Akra Koutsoumba.	36° 38.1' N 27° 52.3' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	69 21	5	White house; 10.	Visible 069°-338°.
20476 E 4734.4	-Porto Simis.	36° 37.2' N 27° 50.6' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7	3	White round hut, metal framework, green band; 17.	
20480 E 4735.2	-Limin Panormitou.	36° 33.1' N 27° 50.0' E	Fl.R. period 2s fl. 0.2s, ec. 1.8s	46 14	3	Iron tower with column; 16.	Visible 308°-173°, obscured elsewhere.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TURKEY-SOUTH COAST							
20484 <i>E 4735.5</i>	-Nisis Koulohdros.	36° 31.0' N 27° 52.2' E	Fl.(3)W. period 15s fl. 0.7s, ec. 2.4s fl. 0.7s, ec. 2.4s fl. 0.7s, ec. 8.1s	98 30	15	White round hut with framework.	Visible 218°-102°.
20488 <i>E 4736</i>	-Marmara Islet.	36° 33.7' N 27° 45.6' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	125 38	6	Metal framework on round hut.	Visible 218°-168°.
20490 <i>E 4733.4</i>	Atabol Kayasi.	36° 40.1' N 27° 57.6' E	Fl.(2)W. period 5s	16 5	6	ISOLATED DANGER BRB, column, topmark.	
20492 <i>E 4737</i>	Alobi Br.	36° 33.1' N 28° 00.1' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	131 40	10	White metal framework tower; 33.	
20496 <i>E 5836</i>	Kadirga Burnu, near extremity.	36° 43.9' N 28° 18.1' E	Fl.(3)W. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	128 39	12	White mast on dwelling; 39.	
20500 <i>E 5838</i>	Kec Adasi, S. point of islet.	36° 48.0' N 28° 15.4' E	Fl.R. period 2s fl. 0.2s, ec. 1.8s	98 30	5	White mast on dwelling; 39.	
20504 <i>E 5838.4</i>	Yilancik Adasi.	36° 46.5' N 28° 26.9' E	Fl.W.R. period 5s fl. 0.5s, ec. 4.5s	335 102	W. 10 R. 7	White metal framework tower; 23.	W. 098°-086°, R.-098°.
20506 <i>E 5838.5</i>	Delikkaya Burnu.	36° 49.9' N 28° 26.1' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	328 100	6	Metal framework tower; 20.	
20508 <i>E 5838.6</i>	Bugluca.	36° 50.3' N 28° 27.6' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	220 67	6	Metal framework tower; 20.	
20509 <i>E 5838.65</i>	Aksaz.	36° 50.5' N 28° 23.1' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	82 25	3	Metal framework tower; 20.	
20509.1 <i>E 5838.67</i>	Canakci.	36° 51.2' N 28° 23.7' E	Fl.(2)R. period 5s		5		
20509.2 <i>E 5838.68</i>	Akburun.	36° 51.3' N 28° 24.5' E	Fl.(2)G. period 5s		5		
20510 <i>E 5838.7</i>	Kargili Burnu.	36° 51.8' N 28° 26.5' E	Q.W.	197 60	10	Metal framework tower; 20.	
20512 <i>E 5839.4</i>	Karacay.	36° 49.4' N 28° 33.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	131 40	5	Framework tower.	
20516 <i>E 5839</i>	Dalyan, on the islet.	36° 47.9' N 28° 35.6' E	Fl.(2)W. period 5s fl. 0.3s, ec. 1s fl. 0.3s, ec. 3.4s	115 35	8	White tower; 20.	
20520 <i>E 5839.45</i>	Baba Adasi, on islet.	36° 41.6' N 28° 41.7' E	Fl.(2)W. period 5s fl. 0.3s, ec. 1s fl. 0.3s, ec. 3.4s	190 58	7	White metal framework pylon; 26.	
20524 <i>E 5838.2</i>	Yildiz Adasi, NW. corner of island, near extremity.	36° 48.9' N 28° 15.8' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	29 9	5	White tower.	
20526 <i>E 5838.3</i>	-Marmaris, S. breakwater "A".	36° 51.2' N 28° 16.6' E	F.G.	13 4	2	White metal structure; 10.	
20526.5 <i>E 5838.35</i>	--N. breakwater "B".	36° 51.1' N 28° 16.7' E	F.R.	13 4	2	White metal structure; 10.	
20528 <i>E 5844.2</i>	Ilbiz Burnu.	36° 32.7' N 29° 00.6' E	Fl.(2)W. period 5s fl. 0.3s, ec. 1s fl. 0.3s, ec. 3.4s	75 23	10	White framework tower.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TURKEY-SOUTH COAST							
20532 <i>E 5839.5</i>	Peksimet Adasi.	36° 34.0' N 28° 49.5' E	Fl.W. period 10s fl. 1s, ec. 9s	115 35	12	White concrete tower; 26.	
FETHIYE KORFEZI:							
20536 <i>E 5841</i>	-Kizil Adalar.	36° 39.3' N 29° 02.5' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	105 32	15	White masonry tower; 43.	
20538 <i>E 5843.5</i>	-Pacariz Burnu.	36° 38.5' N 29° 06.1' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	46 14	4	Concrete tower, 26.	
20540 <i>E 5842</i>	-Megri Adasi, S. point.	36° 38.9' N 29° 05.9' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	56 17	3	White metal column; 20.	
20544 <i>E 5843</i>	-Sunk Rock, 1060 meters 269° from Megri Adasi.	36° 38.8' N 29° 05.1' E	V.Q.W.	23 7	3	N. CARDINAL BY, topmark; 16.	
20548 <i>E 5844</i>	-Kuzey Sigligi.	36° 37.9' N 29° 08.1' E	V.Q.(9)W. period 10s	23 7	3	W. CARDINAL YBY, topmark; 16.	
20552 <i>E 5840</i>	-Gocek Adasi (Kizlan Ada).	36° 42.7' N 28° 57.0' E	Fl.(2)W. period 10s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 7.7s	39 12	8	White framework tower; 20.	
20556 <i>E 5840.4</i>	-Gocek Limani, 1,152 meters 255°30' from pier.	36° 45.1' N 28° 55.3' E	Fl.W.R. period 2s fl. 0.3s, ec. 1.7s	49 15	W. 7 R. 4	White metal framework tower; 20.	W. 314°-326°, R.-314°.
20560 <i>E 5844.4</i>	Kutuburun.	36° 23.5' N 29° 06.2' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	92 28	12	White metal tripod; 20.	
20563 <i>E 5844.9</i>	Eden AVIATION LIGHT.	36° 15.2' N 29° 21.4' E	Fl.R.	1860 567	5	Television mast; 66.	
20564 <i>E 5844.6</i>	Catal Adasi, SW. point.	36° 12.7' N 29° 21.0' E	Fl.W. period 5s	249 76	5	White metal framework tower; 20.	Visible 241°-206°.
20568 <i>E 5847.6</i>	Bucak Roads, Kas Mevkil.	36° 12.3' N 29° 36.6' E	Fl.W.R.G. period 10s	45 14	W. 5 R. 3 G. 3	Metal framework tower.	G. 297°-065°, W.-071°, R.-093°.
NISOS MEYISTI (GR.):							
20572 <i>E 5845</i>	-Akra Agios Stefanos.	36° 09.9' N 29° 35.3' E	Fl.W.R. period 4.5s fl. 0.3s, ec. 4.2s	62 19	W. 5 R. 3	White round hut, metal framework; 18.	W. 060°-076°, obsc.-086°, W.- 095°, R.-125°, W.-254°.
20576 <i>E 5846</i>	-Meyisti, E. side of entrance.	36° 09.0' N 29° 35.6' E	Fl.R. period 2.4s fl. 0.2s, ec. 2.2s	33 10	3	Metal framework tower on pedestal.	Visible 020°-252°.
20580 <i>E 5847</i>	Bayindir Limani, Kas.	36° 10.9' N 29° 38.6' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	33 10	5	White framework tower; 20.	
20581	-AVIATION LIGHT.	36° 10.3' N 29° 39.4' E	Fl.R.		5	Television mast; 33.	
20584 <i>E 5848</i>	Nisos Ipsili (Strongili).	36° 06.6' N 29° 37.9' E	Fl.W. period 5s fl. 0.1s, ec. 4.9s	351 107	17	Round tower on dwelling; 22.	
20588 <i>E 5848.4</i>	Kekova Olu Deniz.	36° 10.8' N 29° 49.8' E	Fl.W.G. period 3s	98 30	W. 7 G. 4	Metal framework tower.	W. 355°-358°, G. elsewhere.
20592 <i>E 5848.2</i>	-Adasi, SW. point.	36° 10.3' N 29° 50.6' E	Fl.(2)W. period 5s fl. 0.3s, ec. 1s fl. 0.3s, ec. 3.4s	180 55	8	Pillar.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TURKEY-SOUTH COAST							
20596 <i>E 5848.5</i>	Kekova Adasi, E. point.	36° 11.6' N 29° 55.1' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	85 26	7	Metal framework tower on concrete base; 20.	
FINIKE KORFEZI:							
20604 <i>E 5849</i>	--Finike.	36° 16.6' N 30° 09.1' E	F.R.	165 50	4	Framework tower; 98.	Radiobeacon.
20608 <i>E 5849.4</i>	--E. breakwater, head.	36° 17.6' N 30° 09.2' E	Fl.R. period 5s fl. 0.3s, ec. 4.7s	42 13	6	Concrete tower; 30.	
20612 <i>E 5849.6</i>	--W. breakwater, head.	36° 17.8' N 30° 09.0' E	Fl.G. period 5s fl. 0.3s, ec. 4.7s	42 13	6	Concrete tower.	
20616 <i>E 5850</i>	-Gelidonya Burnu.	36° 13.1' N 30° 25.3' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	744 227	15	White stone tower, dwelling; 30.	
20620 <i>E 5852</i>	-Yardamci, outer end of cape.	36° 12.6' N 30° 24.9' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	118 36	3	White stone tower on 4 legs; 16.	
20624 <i>E 5854</i>	Adrasan Limani, S. side of entrance.	36° 17.8' N 30° 29.0' E	Mo.(A)W. period 15s fl. 1s, ec. 2s fl. 2s, ec. 10s	147 45	8	White iron skeleton structure, dwelling; 33.	
20628 <i>E 5854.4</i>	Av Burnu.	36° 35.8' N 30° 35.3' E	Fl.W. period 10s fl. 1s, ec. 9s	460 140	14	Metal framework tower; 23.	
20630 <i>E 5854.8</i>	-On rock N. of Kemer Harbor.	36° 36.7' N 30° 34.5' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	20 6	6	Round tower on platform; 10.	
20632 <i>E 5855</i>	Antalya (New Harbor), main breakwater.	36° 50.1' N 30° 36.9' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	49 15	6	Concrete tower.	
20636 <i>E 5855.4</i>	-Lee breakwater.	36° 50.1' N 30° 36.9' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	46 14	6	Concrete tower.	
20640 <i>E 5857</i>	Antalya, N. mole.	36° 53.1' N 30° 42.1' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	26 8	4	White iron structure, concrete base; 16.	
20644 <i>E 5856</i>	-S. mole.	36° 53.0' N 30° 42.2' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	26 8	4	White iron structure; 16.	
20648 <i>E 5858</i>	Baba Burnu.	36° 50.7' N 30° 45.5' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	114 35	8	White stone tower, dwelling; 20.	
20652 <i>E 5859</i>	Selimiye, on extremity of point.	36° 46.0' N 31° 23.1' E	Fl.(2)W. period 5s fl. 0.3s, ec. 1s fl. 0.3s, ec. 3.4s	46 14	9		
20656 <i>E 5860</i>	Alanya.	36° 31.6' N 32° 00.7' E	L.Fl.W. period 20s fl. 2s, ec. 18s	686 209	20	White stone tower and dwelling; 20.	Visible 249°-108°.
20660 <i>E 5861</i>	Selinti Burnu.	36° 14.2' N 32° 17.8' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	108 33	8	White lattice mast; 26.	
20664 <i>E 5862</i>	Anamur Burnu.	36° 01.2' N 32° 48.1' E	Fl.(2)W. period 5s fl. 0.3s, ec. 1s fl. 0.3s, ec. 3.4s	223 68	15	White masonry tower, dwelling; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TURKEY-SOUTH COAST							
20668 <i>E 5866</i>	Soguksu Limani, Aydincik, E. side of entrance.	36° 08.1' N 33° 20.7' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	75 23	8	Iron framework tower, masonry base; 13.	
20669 <i>E 5866.5</i>	Ovacik, W. breakwater, head.	36° 11.2' N 33° 39.3' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	39 12	5	Concrete tower; 30.	
20669.1 <i>E 5866.51</i>	-E. breakwater, head.	36° 11.2' N 33° 39.4' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	39 12	5	Concrete tower; 30.	
20670 <i>E 5867</i>	Ovacik Yarimadasi.	36° 08.2' N 33° 41.1' E	Fl.(2)W. period 5s fl. 0.3s, ec. 1s fl. 0.3s, ec. 3.4s	141 43	18	White round column; 33.	
20672 <i>E 5868</i>	Dana Adasi, NE. point.	36° 11.4' N 33° 48.6' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	229 70	10	White iron pedestal, concrete base; 13.	Visible 131°-022°.
20676 <i>E 5871</i>	Limankalesi, Aghaliman Burnu.	36° 16.5' N 33° 50.5' E	Fl.W. period 3s	30 9	5	Metal framework tower.	
20680 <i>E 5871.3</i>	Tasucu, breakwater, head.	36° 18.9' N 33° 52.9' E	Fl.(2)R. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	43 13	7	White metal framework tower; 26.	
20684 <i>E 5871.32</i>	-Inner breakwater, head.	36° 19.0' N 33° 52.9' E	Fl.(2)G. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	36 11	7	White metal framework tower; 23.	
20688 <i>E 5871.4</i>	Saka, main breakwater.	36° 18.6' N 33° 53.4' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	33 10	5	Concrete tower.	
20692 <i>E 5871.42</i>	Kucuk, breakwater.	36° 18.7' N 33° 53.5' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	33 10	5	Concrete tower.	
20696 <i>E 5871.5</i>	Incekum Burnu.	36° 15.8' N 33° 58.5' E	Fl.W. period 10s fl. 1s, ec. 9s	42 13	10	White metal pylon.	
MERSIN LIMANI:							
20708 <i>E 5872</i>	-Mersin.	36° 47.1' N 34° 37.1' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	53 16	15	White stone tower dwelling; 49.	
20712 <i>E 5872.2</i>	-S. breakwater, head.	36° 47.1' N 34° 38.5' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	30 9	9	White concrete tower; 16.	
20716 <i>E 5872.4</i>	--Elbow.	36° 47.1' N 34° 38.1' E	Dir.Fl.W.R. period 5s fl. 0.5s, ec. 4.5s	33 10	5	Iron framework tower, concrete base; 16.	W. 219°-221°30'. Shown on axis of harbor fairway.
20720 <i>E 5873</i>	-N. breakwater, head.	36° 47.3' N 34° 38.6' E	Fl.G. period 3s	30 9	9	White concrete tower; 16.	F.R. on silos 1 mile NNE.
20724 <i>E 5873.2</i>	-Harbor Range, front.	36° 48.5' N 34° 39.6' E	Oc.G. period 3s lt. 2s, ec. 1s	62 19	7	Iron framework tower, concrete base; 57.	Fairway marked by lighted buoys showing Q.W.
20728 <i>E 5873.3</i>	--Rear, about 189 meters 40° from front.	36° 48.5' N 34° 40.6' E	Oc.G. period 3s lt. 2s, ec. 1s	79 24	7	Iron framework tower, concrete base; 66.	
20744 <i>E 5873.6</i>	-Main breakwater, head.	36° 48.3' N 34° 41.8' E	F.R.	26 8		Concrete tower; 13.	
20748 <i>E 5873.7</i>	-Small breakwater, head.	36° 48.4' N 34° 41.8' E	F.G.	26 8		Concrete tower; 13.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TURKEY-SOUTH COAST							
20752 E 5873.8	Deli Burnu.	36° 43.4' N 34° 54.5' E	Fl.(2)W. period 5s fl. 0.3s, ec. 1s fl. 0.3s, ec. 3.4s	33 10	9	White lattice mast; 26.	
20756 E 5874	Fener Burnu.	36° 32.5' N 35° 20.6' E	Fl.W. period 10s fl. 1s, ec. 9s	124 38	20	White metal mast and dwelling; 39.	
20760 E 5874.4	Karatas, main breakwater, head.	36° 33.4' N 35° 23.1' E	Fl.R. period 5s fl. 1s, ec. 4s	33 10	8	Concrete tower.	
20764 E 5874.5	-Small breakwater, head.	36° 33.5' N 35° 23.0' E	Fl.G. period 5s fl. 1s, ec. 4s	30 9	7	Concrete tower.	
20766 E 5874.6	--SE.	36° 33.4' N 35° 23.3' E	Fl.R. period 10s fl. 1s, ec. 9s	33 10	9	White framework structure.	
20768 E 5875	Yumurtalik.	36° 47.7' N 35° 47.9' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	98 30	10	White concrete tower; 33.	
20772 E 5875.2	-Breakwater, head.	36° 46.2' N 35° 47.8' E	F.R.	33 10	3	Tower; 33.	
20776 E 5875.5	-Devegecegi.	36° 42.6' N 35° 43.5' E	Fl.W.R. period 3s fl. 0.3s, ec. 2.7s	23 7	W. R. 7 4	Metal framework tower.	W. 120°-210°, R.-120°.
20788 E 5912	Botas Liman, pier, head.	36° 51.9' N 35° 56.6' E	F.R.	33 10	3	Mast.	
20792 E 5912.02	-Close N. of pier, head.	36° 52.0' N 35° 56.7' E	F.R.	33 10	3	Mast.	
20796 E 5912.04	-Shelter harbor, S. breakwater, head.	36° 53.0' N 35° 56.4' E	F.R.G.	10 3	3	Concrete tower.	R. 055°-150°, G.-055°.
20800 E 5912.06	--N. breakwater.	36° 53.0' N 35° 56.2' E	F.W.G.	10 3	3	Concrete tower.	G. 350°-150°, W.-350°.
20804 E 5912.5	Karargah Toros, Gubre Fertilizer Pier, head.	36° 54.3' N 35° 58.2' E	Fl.R. period 5s	33 10	5	Metal mast.	
20805 E 5912.6	-E. Pier.	36° 54.6' N 35° 59.5' E	F.R.	33 10	5	Dolphin; 16.	
20808 E 5913	Dortyol, T-head jetty, N. end.	36° 51.4' N 36° 07.9' E	Fl.W.				
20812 E 5913.02	-S. end.	36° 51.1' N 36° 07.9' E	Fl.W.				
20813 E 5914	-S. Mole.	36° 43.4' N 36° 11.1' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	33 10	6	White concrete tower; 26.	
20813.5 E 5914.4	--N. Mole.	36° 43.6' N 36° 11.1' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	33 10	6	Concrete tower; 26.	
20813.7 E 5914.65	-Pirs Ekindzhiler.	36° 41.3' N 36° 11.6' E	F.R.				
20813.9 E 5914.67	-Yazici jetty, head.	36° 40.9' N 36° 11.7' E	Fl.R. period 3s				
20814 E 5914.7	-Iskenderun Gubre Fab.	36° 39.8' N 36° 12.2' E	F.R.	75 23	1	Pillar; 59.	
ISKENDERUN:							
20816 E 5916	-W. point of roadstead.	36° 32.3' N 36° 03.1' E	Fl.W. period 10s	180 55	18	White tower; 20.	Obscured 234°-shore.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TURKEY-SOUTH COAST							
20820 <i>E 5915</i>	-W. breakwater, head.	36° 36.3' N 36° 11.1' E	Fl.G. period 7s	43 13	6	White metal column; 20.	Fl.R. shown on grain elevator 0.5 mile SE.
20824 <i>E 5915.22</i>	-Center mole, head.	36° 35.7' N 36° 11.0' E	F.G.	30 9	3	White iron skeleton tower, concrete base; 20.	
20824.5 <i>E 5915.02</i>	--W. mole, head.	36° 35.7' N 36° 11.0' E	Fl.G. period 5s	20 6	3	Concrete tower.	
20825 <i>E 5915.4</i>	-Fishing Harbor, N. breakwater.	36° 35.7' N 36° 10.7' E	F.G.	23 7	3	Concrete pillar; 16.	
20826 <i>E 5915.5</i>	--S. breakwater.	36° 35.6' N 36° 10.7' E	F.R.	26 8	3	Concrete pillar; 19.	
20832 <i>E 5917</i>	Resulhinzir.	36° 19.4' N 35° 47.0' E	Fl.(2)W. period 5s fl. 0.3s, ec. 1s fl. 0.3s, ec. 3.4s	357 109	22	White tower with dwelling; 16.	

Section 14

Cyprus, Syria, Lebanon, Israel, Egypt, Libya and Tunisia

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CYPRUS							
20836 <i>E 5908</i>	Paphos Point.	34° 45.4' N 32° 24.3' E	Fl.W. period 15s fl. 1.5s, ec. 13.5s	118 36	17	White cylindrical masonry tower; 65.	Visible 277°-141°.
20844 <i>E 5908.5</i>	Paphos Range, front.	34° 45.1' N 32° 24.4' E	F.R.	25 8	2	Mast.	
20848 <i>E 5908.51</i>	-Rear, about 165 meters 321°30' from front.	34° 45.4' N 32° 24.5' E	F.R.	41 12	2	Mast.	
20850 <i>E 5908.6</i>	Port entrance.	34° 45.2' N 32° 24.5' E	Q.R.	16 5	4		
20852 <i>E 5876.4</i>	-Akrotiri AVIATION LIGHT.	34° 35.1' N 32° 59.4' E	Mo.(AK)R.	121 37		Beacon.	Occasional.
20856 <i>E 5876</i>	Cape Gata.	34° 33.6' N 33° 01.4' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	190 58	15	White masonry tower.	Obscured 130°-189°.
20860 <i>E 5876.2</i>	Akrotiri, breakwater, head.	34° 34.3' N 33° 02.0' E	Fl.R. period 10s	36 11	5	White framework tower; 36.	
20864 <i>E 5876.3</i>	-W. side harbor entrance.	34° 34.3' N 33° 01.9' E	Fl.G. period 10s	36 11	3	White framework tower; 36.	
20868 <i>E 5876.6</i>	-Ro Ro Berth, NE. dolphin.	34° 34.1' N 33° 02.0' E	Fl.(2)R. period 10s fl. 0.7s, ec. 1.3s fl. 0.7s, ec. 7.3s	30 9	3	Dolphin; 33.	
20872 <i>E 5876.8</i>	--SW. dolphin.	34° 34.3' N 33° 02.2' E	Fl.R. period 10s fl. 0.7s, ec. 9.3s	23 7	3	Dolphin; 26.	
20876 <i>E 5880</i>	Limassol, NW. corner of S. quay.	34° 39.8' N 33° 02.5' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	29 9	7	Gray metal framework tower.	
20880 <i>E 5880.2</i>	-W. breakwater, head.	34° 39.9' N 33° 02.5' E	F.R.	29 9	6	Gray metal framework tower.	
20882 <i>E 5880.7</i>	Pyrgos Marina.	34° 42.3' N 33° 10.0' E	Fl.(2)W. period 10s	30 9	10	Metal mast; 13.	
LIMASSOL:							
20884 <i>E 5877.4</i>	-New port, N. breakwater, head.	34° 38.8' N 33° 01.4' E	Oc.G. period 7s	43 13	10	Metal column; 30.	
20888 <i>E 5877</i>	--S. breakwater, head.	34° 39.0' N 33° 02.0' E	Q.(6)R. period 10s	30 9	8	Metal column; 16.	
20892 <i>E 5878</i>	-Range, front.	34° 38.5' N 33° 00.7' E	F.G.	19 6	2	Metal framework tower, orange diamond.	
20896 <i>E 5878.1</i>	--Rear, about 410 meters 248° from front.	34° 38.5' N 33° 00.3' E	Oc.G. period 5s lt. 4s, ec. 1s	39 12	2	Metal framework tower, orange diamond.	
20900 <i>E 5881</i>	Vasilkos.	34° 42.7' N 33° 18.7' E	F.R.	85 26	6	Loading pylon; 85.	Two radio masts in vicinity are marked by 6 F.R. lights.
20901 <i>E 5881.1</i>	-S. breakwater, head.	34° 42.9' N 33° 19.1' E	Fl.R. period 5s				
20901.5 <i>E 5881.2</i>	-N. breakwater, head.	34° 43.0' N 33° 19.1' E	F.G.				

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CYPRUS							
20904 <i>E 5882</i>	Cape Kiti, near extremity.	34° 48.8' N 33° 36.2' E	Fl.(3)W. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	67 20	13	White masonry tower.	
20908 <i>E 5882.5</i>	-Fishing harbor, E. breakwater.	34° 53.8' N 33° 38.3' E	Fl.(2)R. period 10s		4	Beacon.	
20912 <i>E 5882.6</i>	--W. breakwater.	34° 54.0' N 33° 38.4' E	Fl.(2)G. period 10s		4	Beacon.	
LARNACA:							
20916 <i>E 5884</i>	-Main harbor, S. breakwater, head.	34° 55.3' N 33° 38.8' E	Fl.W.R. period 5s fl. 0.5s, ec. 4.5s	26 8	W. 10 R. 5		R. 075°-270°, W.-005°.
20920 <i>E 5884.4</i>	--N. breakwater, head.	34° 55.4' N 33° 38.6' E	F.G.	16 5	3		
20924 <i>E 5883</i>	-Yacht Harbor.	34° 55.1' N 33° 38.6' E	Fl.(5)W.R. period 15s	39 12	W. 16 R. 13	Orange mast.	W. 190°-285°, R.-010°.
			F.R.	20 6		Same structure.	
20928 <i>E 5883.6</i>	--N. pier.	34° 55.0' N 33° 38.0' E	F.G.	10 3	1	Metal post.	
20940 <i>E 5888</i>	Cape Greco.	34° 57.2' N 34° 05.0' E	Fl.W. period 15s fl. 1.5s, ec. 13.5s	52 16	12	White masonry tower; 50.	
FAMAGUSTA:							
20944 <i>E 5892</i>	-SE. Bastion.	35° 07.1' N 33° 56.8' E	Fl.(2)W. period 20s fl. 1s, ec. 3s fl. 1s, ec. 15s	75 23	16	Stone tower; 36.	Visible 150°-290°.
20948 <i>E 5893</i>	-NW. of town.	35° 08.3' N 33° 55.5' E	Fl.W.R. period 7s fl. 0.8s, ec. 6.2s	60 18	W. 15 R. 11	White concrete tower, black stripes; 35.	W. 178°-216°, R.-313°.
20952 <i>E 5894</i>	-Outer breakwater, head.	35° 07.8' N 33° 56.5' E	Q.(5)R. period 10s fl. 0.3s, ec. 0.7s fl. 0.3s, ec. 0.7s fl. 0.3s, ec. 0.7s fl. 0.3s, ec. 0.7s fl. 0.3s, ec. 5.7s	33 10	4	White metal framework tower, concrete base; 20.	
20956 <i>E 5895</i>	-Inshore breakwater, head.	35° 08.0' N 33° 56.5' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	32 10	4	White metal framework tower, concrete base; 20.	
20960 <i>E 5896</i>	-E. mole, head.	35° 07.5' N 33° 56.7' E	Q.R.	30 9	2	Black metal column; 25.	
20965 <i>E 5890</i>	Cape Elea.	35° 19.5' N 34° 02.8' E	Fl.W. period 10s fl. 1s, ec. 9s	102 31	5	White concrete tower, black stripes; 36.	
20968 <i>E 5900</i>	Klidhes Islands, off end of Cape Andreas.	35° 42.5' N 34° 36.4' E	Fl.(4)W. period 20s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 16.5s	66 20	14	White steel tower; 33.	
RACON							
20970 <i>E 5901</i>	Yeni Erenkoy Fishing Harbor.	35° 33.9' N 34° 13.0' E	Fl.(2)R. period 5s	39 12	8	White concrete tower; 10.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CYPRUS							
20971 <i>E 5901.6</i>	Kyrenia.	35° 20.4' N 33° 19.8' E	Fl.(3)R. period 20s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 13.5s	59 18	15	Red and white framework tower on white building; 23.	
20972 <i>E 5902</i>	-Marina breakwater.	35° 20.3' N 33° 19.4' E	Q.(6)+L.Fl.R. period 15s	33 10	4	Red metal framework tower; 26.	Fl.R. 3s and Fl.G. lights mark head of jetties in new port 0.5 mile E.
20973 <i>E 5902.6</i>	-Ferry harbor, N. breakwater, head.	35° 20.6' N 33° 20.2' E	Fl.G. period 3s	39 12	4	White concrete tower; 26.	
20973.5 <i>E 5902.4</i>	--S. breakwater, head.	35° 20.5' N 33° 20.1' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	39 12	4	White concrete tower; 26.	
20976 <i>E 5904</i>	Cape Kormakiti.	35° 24.0' N 32° 55.2' E	Fl.(2)W. period 20s fl. 1s, ec. 2s fl. 1s, ec. 16s	100 30	15	White steel framework tower; 73.	
KARAVOSTASI:							
20980 <i>E 5906</i>	-Xeros Pier, root.	35° 08.3' N 32° 50.2' E	Fl.R. period 3s fl. 0.2s, ec. 2.8s	62 19	7	Gray steel tripod on building; 23.	
20984 <i>E 5907</i>	-W. pier, head.	35° 08.8' N 32° 48.9' E	Fl.W. period 5s	60 18	5		
20985 <i>E 5907.5</i>	Moulia Rocks.	34° 43.4' N 32° 26.1' E	Fl.(2)W. period 10s	20 6	6		
20986 <i>E 5910</i>	Cape Akamas.	35° 05.5' N 32° 16.9' E	Fl.(2)W. period 15s	692 211	17	Post; 10.	
SYRIA							
20988 <i>E 5919</i>	Ra's al Basit, on the hill.	35° 51.8' N 35° 48.0' E	Fl.W. period 4s fl. 1s, ec. 3s	246 75	14	White tower; 39.	
20992 <i>E 5919.4</i>	Ra's al Fasuri.	35° 40.3' N 35° 46.3' E	Q.(3)W. period 5s fl. 0.3s, ec. 0.7s fl. 0.3s, ec. 0.7s fl. 0.3s, ec. 2.7s	243 74	5	White tower, black bands.	
20996 <i>E 5920</i>	Ra's Iban Hani.	35° 35.2' N 35° 43.0' E	Fl.W. period 6s	92 28	12	White tower.	
21004 <i>E 5921.6</i>	-Al Ladhqiyyah, breakwater, head.	35° 31.9' N 35° 45.2' E	Fl.G. period 3s	13 4	5	Gray metal framework tower.	
21005 <i>E 5921.5</i>	-Al Ladhqiyyah Range, front.	35° 31.8' N 35° 46.2' E	Fl.(2)R. period 5s		6		
21005.1 <i>E 5921.51</i>	--Rear, 500 meters 115°36' from front.	35° 31.7' N 35° 46.5' E	Fl.(2)R. period 5s		6		
21006 <i>E 5921.4</i>	-Al Burj.	35° 30.9' N 35° 46.1' E	Fl.(2)W. period 9s	72 22	10	White tower; 16.	
JABLAH (DJEBLE):							
21012 <i>E 5922</i>	-W. breakwater, head.	35° 21.6' N 35° 55.0' E	Q.G. period 1.2s fl. 0.3s, ec. 0.9s	23 7	4	Black metal framework tower.	Fishing.
21016 <i>E 5922.2</i>	-E. breakwater, head.	35° 21.6' N 35° 55.1' E	Q.R. period 1.2s fl. 0.3s, ec. 0.9s	20 6	5	Black metal framework tower.	Fishing.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SYRIA							
21018	-Arab el Melek Buoy.	35° 16.3' N 35° 54.4' E	Fl.(3)W. period 10s			Pillar, black and red bands, topmark.	
	-RACON		D(- ••)				
	BANIYAS:						
21020 E 5923	-Boat harbor, W. breakwater, head.	35° 13.4' N 35° 56.6' E	Fl.W. period 5s	19 6	4	Black metal structure.	
21024 E 5923.2	--E. breakwater, head.	35° 13.4' N 35° 56.7' E	Fl.R. period 10s	19 6	3	Black metal structure.	
21028	-Marqab Buoy.	35° 12.5' N 35° 54.8' E	Fl.(4)W. period 15s			Pillar, red and white stripes, topmark.	
	-RACON		M(- -)				
	JABLAH (DJEBLE):						
21032 E 5923.5	-Baniyas.	35° 08.8' N 35° 55.2' E	Fl.(3)W.R. period 17s fl. 0.4s, ec. 2s fl. 0.4s, ec. 2s fl. 0.4s, ec. 11.8s	321 98	W. 16 R. 12	White tower; 36.	W. 015°-175°, R.-195°.
	TARTUS:						
21036 E 5923.7	-W. breakwater, head.	34° 54.6' N 35° 51.2' E	Fl.G. period 3s	33 10	5	Black metal framework tower.	
21040 E 5923.8	-E. breakwater, head.	34° 54.6' N 35° 51.4' E	Iso.R. period 2s	23 7	5	Black metal framework tower.	
21044 E 5924	Jazirat Arwad.	34° 51.4' N 35° 51.3' E	Fl.W. period 5s fl. 1s, ec. 4s	66 20	12	White tower on fort; 13.	
21045 E 5924.2	-E. jetty, head.	34° 51.4' N 35° 51.7' E	Q.G.	10 3	1	Black pylon.	
21045.5 E 5924.3	-S. jetty, head.	34° 51.4' N 35° 51.7' E	Q.R.	10 3	1	Black pylon.	
LEBANON							
	TARABULUS (TRIPOLI):						
21048 E 5926	-Jazirat Ramkin.	34° 29.8' N 35° 45.6' E	Fl.W. period 3.3s fl. 0.8s, ec. 2.5s	72 22	18	White tower; 16.	
21052 E 5927	--NE. head.	34° 27.9' N 35° 49.5' E	Fl.G. period 4.5s	33 10	5	White square metal tower, black stripes; 20.	
21056 E 5927.4	--E. mole, head.	34° 27.6' N 35° 49.5' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	31 9	5	Metal framework tower; 20.	
21060 E 5927.6	-Tower of Lions.	34° 27.0' N 35° 49.8' E	F.R.		3	Tower; 69.	A F.R. light is shown 2.8M ESE. of the tower. Occasional.
21064 E 5929	Kalmoun.	34° 23.0' N 35° 47.0' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	16 5	3	Black and white pylon.	
21068 E 5929.2	Anfan.	34° 21.0' N 35° 44.0' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	16 5	3	Black and white pylon.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
LEBANON							
21072 <i>E 5929.4</i>	Ra's ash Shaq'ah.	34° 19.0' N 35° 43.0' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	10 3	3	Black and white pylon.	
21076 <i>E 5929.6</i>	Al Batrun.	34° 15.0' N 35° 39.0' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	16 5	3	Black and white pylon.	
21080 <i>E 5929.8</i>	Fad'us.	34° 14.0' N 35° 39.0' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	23 7	3	Black and white pylon.	
21084 <i>E 5930</i>	Ra's Amshit.	34° 09.0' N 35° 37.0' E	Fl.W. period 2s fl. 0.3s, ec. 1.7s	20 6	3	Black and white pylon.	
21088 <i>E 5931.2</i>	Jubayl, E. side of entrance to port.	34° 06.0' N 35° 39.0' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7	5	Framework tower.	A light, Fl.R. 3s, is shown from side of old wall.
21092 <i>E 5932</i>	Tabarja.	34° 02.4' N 35° 37.2' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	33 10	5	Black and white pylon.	
PORT DE JOUNIE:							
21094 <i>E 5933</i>	-Yacht Basin, mole, head.	33° 59.3' N 35° 37.2' E	Q.(2)G. period 3s fl. 0.4s, ec. 0.6s fl. 0.4s, ec. 1.6s	33 10	8	White metal framework tower, black bands	
21096 <i>E 5933.1</i>	--Quay at entrance.	33° 59.5' N 35° 37.0' E	Fl.R. period 3s fl. 0.4s, ec. 2.6s	26 8	5	Black and white pylon.	
21104 <i>E 5933.3</i>	-Naval basin, jetty, head.	33° 59.1' N 35° 37.1' E	Fl.G. period 2s fl. 0.4s, ec. 1.6s	33 10	8	Black and white pylon.	
21116 <i>E 5934</i>	-Ra's Bayrut.	33° 53.8' N 35° 28.3' E	Fl.(2)W. period 10s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 7.2s	257 78	33	White octagonal tower, black bands; 89.	Radio masts showing F.R. and F.W. lights, about 1.1 km. NE.
<i>Note: All lights and radiobeacons in the Beirut area are reported temporarily inoperative.</i>							
BAYRUT (BEIRUT):							
21120 <i>E 5935</i>	-Breakwater, head.	33° 54.6' N 35° 31.4' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	46 14	8	Black and white pylon.	
21128 <i>E 5938.1</i>	-Airport AVIATION LIGHT.	33° 50.0' N 35° 29.0' E	Mo.(BL)G. period 12s	138 42	17	At hangar.	Occasional.
21132 <i>E 5938</i>	--AVIATION LIGHT.	33° 49.7' N 35° 29.2' E	Al.W.G. period 4s	138 42	17	Control tower.	Occasional.
SAYDA (SIDON):							
21140 <i>E 5940</i>	-Az Zirah.	33° 34.3' N 35° 22.0' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	33 10	6	White pylon; 13.	
21148	-Port entrance, S. side.	0° 00.0' 0° 00.0'	Fl.R. period 2s fl. 0.5s, ec. 1.5s	25 8	3		
AZ ZAHRANI:							
21152 <i>E 5941</i>	-Oil Terminal.	33° 30.1' N 35° 20.5' E	Fl.R. period 2s	184 56		Red and white framework tower.	F.R. lights shown 14 and 27 meters below this light on same tower.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
LEBANON							
21156	-Range No. "1", front.	33° 30.0' N 35° 20.0' E	F.G.	46 14			4 floodlights are shown NE. while ships are mooring.
21160	--Rear, about 544 meters 179° from front.	33° 00.1' N 35° 20.4' E	F.G.	64 20			Shown on approach to No. 1 berth.
21164	-Range No. "2", front.	33° 30.0' N 35° 20.0' E	F.R.	51 16			
21168	--Rear, about 466 meters 180°30' from front.	32° 29.9' N 35° 20.5' E	F.R.	82 25			Shown on approach to No. 2 berth.
21172	-Range No. "3", front.	33° 31.0' N 35° 21.0' E	F.G.	42 13			
21176	--Rear, about 430 meters 180° from front.	33° 00.1' N 35° 20.7' E	F.G.	47 14			Shown on approach to No. 3 berth.
21180	-Range No. "4", front.	33° 30.0' N 35° 21.0' E	F.R.	54 16			
21184	--Rear, about 576 meters 180° from front.	33° 00.1' N 35° 20.8' E	F.R.	150 46			Shown on approach to No. 4 berth.
21188 <i>E 5941.8</i>	As Sarafand.	33° 26.0' N 35° 16.1' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	16 5	3	Black and white pylon.	
SUR (TYRE):							
21192 <i>E 5942</i>	-On old fort NW. of town.	33° 16.6' N 35° 11.6' E	Fl.(3)W. period 12s fl. 0.3s, ec. 1.8s fl. 0.3s, ec. 1.8s fl. 0.3s, ec. 7.5s	49 15	12	White tower; 20.	
21196 <i>E 5943.2</i>	-Port entrance, N. side.	33° 17.0' N 35° 11.0' E	Fl.G. period 2s fl. 0.5s, ec. 1.5s	21 6	3		
21200 <i>E 5943</i>	-Port entrance, S. side.	33° 16.5' N 33° 11.5' E	Fl.R. period 2s fl. 0.5s, ec. 1.5s	21 6	3		
ISRAEL							
21204 <i>E 5944</i>	Akko (Acre), S. of town.	32° 55.1' N 35° 04.0' E	Fl.(2)W. period 7s	51 16	10	Black and white checkered tower; 33.	
21208 <i>E 5944.2</i>	-Breakwater, head.	32° 55.1' N 35° 04.2' E	Q.W.		2		
21212 <i>E 5945</i>	Har Karmel (Mount Carmel).	32° 49.7' N 34° 58.1' E	Fl.W. period 5s fl. 0.3s, ec. 4.7s	587 179	30	White circular tower and building; 67.	Partially obscured 235°-236°, obscured 263°-shore. Radiobeacon.
HAIFA:							
21216 <i>E 5946</i>	-Main breakwater, head.	32° 49.6' N 35° 00.9' E	Fl.(2)G. period 4s	49 15	2		
21220 <i>E 5947</i>	-Lee breakwater, head.	32° 49.4' N 35° 00.5' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	46 14	5	White concrete tower; 31.	
21224	-W. jetty, head.	0° 00.0' 0° 00.0'	F.R.				Traffic signals.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ISRAEL							
-Qishon (Kishon):							
21228 <i>E 5952</i>	--N. breakwater, head.	32° 49.0' N 35° 01.3' E	Q.(2)R. period 5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 3.5s	33 10	6	Gray pylon.	
21232 <i>E 5953</i>	--S. breakwater, head.	32° 48.9' N 35° 01.3' E	Q.(2)G. period 5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 3.5s	20 6	4	Gray pylon.	
21234 <i>E 5954</i>	Port of Hadera, jetty, head.	32° 28.2' N 34° 51.8' E	F.R.	62 19			Lights of port difficult to distinguish against shore lights.
21234.2 <i>E 5954.5</i>	-W. breakwater, head.	32° 28.6' N 34° 52.7' E	Fl.G. period 2s	30 9			
21234.4 <i>E 5954.6</i>	-E. breakwater, head.	32° 28.6' N 34° 52.8' E	Fl.R. period 5s	30 9			
21236 <i>E 5956</i>	Mikhmoret, at Nautical School.	32° 24.2' N 34° 51.9' E	Al.FI.W.R. period 15s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 9.5s	46 14	10	On roof of concrete building.	
21238 <i>E 5957</i>	Herzlia Marina, breakwater.	32° 10.0' N 34° 47.9' E	Fl.G. period 5s	49 15			Fl.R. 5s marks Lee Breakwater.
TEL AVIV:							
21240 <i>E 5958.4</i>	-Power station breakwater.	32° 06.2' N 34° 46.5' E	Fl.(2)R. period 5s fl. 0.4s, ec. 1s fl. 0.4s, ec. 3.2s	29 9	2	White metal column; 13.	
21244 <i>E 5959</i>	-Harbor, N. breakwater.	32° 05.9' N 34° 46.3' E	F.R.				
21248 <i>E 5959.2</i>	--S. breakwater.	32° 05.9' N 34° 46.3' E	F.G.				
21252 <i>E 5959.4</i>	-Marina, breakwater.	32° 05.3' N 34° 46.0' E	Fl.(7)G. period 28s	33 10	5	Red and white striped pole.	
JAFFA:							
21256 <i>E 5963</i>	-Breakwater, head.	32° 03.3' N 34° 45.0' E	Fl.G. period 4s fl. 0.5s, ec. 3.5s		7		
21257 <i>E 5962.4</i>	-Range, front.	32° 03.3' N 34° 45.1' E	F.R.				Occasional.
21258 <i>E 5962.5</i>	--Rear, 123° from front.	32° 03.3' N 34° 45.1' E	F.R.				Occasional.
21260 <i>E 5967</i>	Ashdod.	31° 48.8' N 34° 38.7' E	Fl.(3)W. period 20s fl. 0.3s, ec. 3.7s fl. 0.3s, ec. 3.7s fl. 0.3s, ec. 11.7s	249 76	22	Concrete tower, upper half red and white checkered; 138.	
21264 <i>E 5968</i>	-Main breakwater.	31° 50.0' N 34° 38.2' E	Fl.G. period 2s		7		
21268 <i>E 5969</i>	-Lee breakwater.	31° 49.9' N 34° 38.3' E	Fl.R. period 2s		7		
21269 <i>E 5969.5</i>	-Central jetty.	31° 50.6' N 34° 39.2' E	Fl.W. period 5s	10 3	2		
21271 <i>E 5969.75</i>	-Ashdod Blue Marina, breakwater.	31° 47.5' N 34° 37.3' E	Oc.(2)G. period 8s lt. 5s, ec. 1s lt. 1s, ec. 1s	49 15	5		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ISRAEL							
21272 <i>E 5970</i>	Tel Ashqelon.	31° 38.2' N 34° 32.5' E	Fl.(2)W. period 10s fl. 0.2s, ec. 1.5s fl. 0.2s, ec. 8.1s		15		
EGYPT							
21274 <i>E 5973</i>	El Arish.	31° 08.7' N 33° 48.9' E	Fl.W. period 5s	128 39	18	White concrete tower, black bands.	
	RACON		G(— — •)				
	BUR SA'ID (PORT SAID):						
21276 <i>E 5978.2</i>	-Port Said.	31° 16.4' N 32° 17.6' E	Fl.W. period 10s	154 47	20	White daymark on framework tower.	Radiobeacon. DGPS Station.
	-RACON		TS(— •••)				(3 & 10 cm)
21284 <i>E 5980</i>	-Entrance Range, front.	31° 15.0' N 32° 18.2' E	F.R.	118 36	6	Gray metal framework tower, triangular daymark, point up; 131.	Visible 207°-229°.
21288 <i>E 5980.1</i>	-Rear, 1100 meters 217°40' from front.	31° 14.5' N 32° 17.8' E	Oc.(2)R. period 10s lt. 1.5s, ec. 1s lt. 6.5s, ec. 1s	151 46	7	Gray metal framework tower, spherical daymark; 177.	Visible 207°-229°.
21292 <i>E 5979</i>	-E. breakwater, head.	31° 16.6' N 32° 19.8' E	Oc.R. period 6s			Metal framework tower.	
21292.5 <i>E 5978.6</i>	-Pilot tower.	31° 18.0' N 32° 21.4' E	Iso.W. period 2s	138 42	15	White framework tower, red bands.	Horn.
	-RACON		Q(— — •—)		20		
	SUEZ CANAL:						
	The Suez Canal is marked by articulated beacons.						
21293 <i>E 5983</i>	-Breakwater, E. side.	31° 15.1' N 32° 21.6' E	F.W.			Metal tower, red & white horizontal stripes.	
21294 <i>E 5983.2</i>	--W. side.	31° 14.8' N 32° 20.4' E	F.W.			Metal tower, red & white horizontal stripes.	
21300 <i>E 5985</i>	-Bur Sa'id Bypass, E. side.	31° 13.4' N 32° 20.7' E	Fl.(2)R. period 10s	82 25		Black and gray metal tower; 75.	
21304 <i>E 5985.2</i>	--W. side.	31° 13.5' N 32° 20.5' E	Fl.(2)G. period 10s	82 25		Black and gray metal tower; 131.	
	MASABB DUMYAT:						
21308 <i>E 6156</i>	-Dumyat (Damietta).	31° 31.4' N 31° 50.8' E	Fl.(2)W. period 30s	154 47	20	White daymark on framework tower.	Radiobeacon.
	-RACON		DA(— •• •—)				
21312 <i>E 6158</i>	--W. side of entrance.	31° 31.6' N 31° 50.5' E	Fl.G. period 10s	46 14	8	Green tower; 33.	Fl.R. 10s 5M marks E. side.
21316 <i>E 6158.5</i>	-El Ghirby.	31° 30.5' N 31° 50.0' E	Fl.G. period 3s	12 4	5	White pyramidal structure, black bands, concrete base; 14.	

Visibilities (ranges) of lights in Egypt are undependable.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
EGYPT							
21317 <i>E 6159</i>	Damietta Port Dir. Lt. 191°30'.	31° 27.8' N 31° 45.3' E	Dir.Oc.W.R.G.	67 20	W. 12 R. - G. -	Metal tower; 66.	
21318 <i>E 6159.3</i>	-W. breakwater.	31° 29.6' N 31° 45.3' E	Fl.G. period 5s	33 10	6	Green metal tower; 33.	
21318.5 <i>E 6159.4</i>	-E. breakwater.	31° 29.5' N 31° 45.8' E	Fl.(2)R. period 10s fl. 1s, ec. 1s fl. 1s, ec. 7s	33 10	6	Red metal tower; 33.	
21319 <i>E 6159.6</i>	--No. "37".	31° 28.1' N 31° 45.6' E	Fl.Bu. period 2.5s fl. 0.5s, ec. 2s		7	Tower; 10.	
21320 <i>E 6162</i>	Burullus.	31° 36.0' N 31° 04.8' E	Fl.(3)W. period 20s	154 47	20	White daymark on framework tower.	Radiobeacon.
	RACON		BR(-••• •-•)				
21322	Rashid Gas Platform RACON.	31° 50.8' N 30° 38.1' E	G(- -•)				(3 & 10cm)
21324 <i>E 6166</i>	Raschid (Rosetta).	31° 26.4' N 30° 25.8' E	Fl.(4)W. period 20s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 10.8s	154 47	20	White daymark on framework tower; 49.	Aeromarine light. Radiobeacon.
	RACON		TA(- •-)				
21326	-N. Abu Qir Gas Field Platform, NAQ P-1D.	31° 35.8' N 30° 06.7' E	Mo.(U)W. period 15s				
	-RACON		Q(- -•-)				(3 & 10 cm)
21328 <i>E 6168</i>	Geziret Disuqi, summit.	31° 21.6' N 30° 06.3' E	Fl.W. period 5s	72 22	12	White steel post, red top, on concrete base; 33.	
	RACON		D(-••)				(3 & 10cm)
21330	Abu Qir, breakwater, head.	31° 19.9' N 30° 05.0' E	Oc.W. period 3s lt. 2s, ec. 1s	56 17	5		
AL ISKANDARIYAH (ALEXANDRIA):							
21332 <i>E 6171</i>	-Eastern Harbor, W. breakwater, head.	31° 12.8' N 29° 53.4' E	Fl.G. period 5s	69 21	8	Green steel post on stone base; 33.	
21336 <i>E 6170</i>	--E. breakwater, head.	31° 12.9' N 29° 53.6' E	Fl.R. period 5s	46 14	5	Red concrete tower; 19.	
21340 <i>E 6171.4</i>	-Qaitbai Fort.	31° 12.8' N 29° 53.0' E	F.Y.				
21344 <i>E 6173</i>	-Ra's at Tin.	31° 11.7' N 29° 51.7' E	Fl.(2+1)W. period 30s fl. 0.2s, ec. 4s fl. 0.2s, ec. 12.7s fl. 0.2s, ec. 12.7s	171 52	21	White stone tower, black bands; 180.	F.R. 27m on radio masts 0.2 and 0.3 mile NE. Storm signals.
	-RACON		X(-••-)				(3 & 10 cm)
21356 <i>E 6176</i>	-Great Pass, entrance Range, front.	31° 09.3' N 29° 50.7' E	2 F.R. (vert.)	58 18	5	White round tower, red stripes; 65.	10 meters apart. Visible 050°-150°. Radiobeacon. DGPS Station.
			F.W.	43 13	5		Visible 150°-050°.

Visibilities (ranges) of lights in Egypt are undependable.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
EGYPT							
21360 <i>E 6176.1</i>	--Al Maks, rear, 740 meters 113° from front.	31° 09.3' N 29° 50.8' E	2 F.W. (vert.)	124 38 94 29	10	White cylindrical tower, black top with ball and spike daymark.	Visible 095°30'-169°30'.
21370 <i>E 6174</i>	Great Pass.	31° 10.0' N 29° 48.5' E	Fl.W. period 4s fl. 1s, ec. 3s	69 21	16	White cylindrical concrete tower, red and green bands.	
	RACON		M(—)				
21372 <i>E 6176.3</i>	--Hydrographer shoal.	31° 09.9' N 29° 48.7' E	Fl.G. period 5s fl. 1s, ec. 4s		5	Black metal tower, white bands; 30.	
21376 <i>E 6176.5</i>	--N. Shoal beacon.	31° 09.9' N 29° 49.1' E	Fl.R. period 5s		5	Red square metal tower, white bands. 23.	
21380 <i>E 6180</i>	--Outer Harbor, outer breakwater, head.	31° 09.9' N 29° 50.7' E	Fl.R. period 3s	46 14	8	Red metal tower.	
21384 <i>E 6182</i>	--Quarantine breakwater, head.	31° 09.9' N 29° 51.0' E	Fl.G. period 3s	46 14	8	Green metal tower.	
21388 <i>E 6183</i>	--Petroleum harbor, W. head.	31° 10.0' N 29° 51.1' E	Fl.G. period 5s	18 5	2		
21390 <i>E 6183.3</i>	---E. head.	31° 10.0' N 29° 51.3' E	Fl.R. period 5s	16 5	2		
21400 <i>E 6186.5</i>	--Inner Harbor, Coal quay, S. head.	31° 10.9' N 29° 52.1' E	Fl.(2)R. period 10s	23 7		White and red framework tower; 13.	
21408 <i>E 6189</i>	--Arsenal Basin, W. mole, head.	31° 11.8' N 29° 52.5' E	Fl.R. period 3s	59 18		White and red metal framework tower.	
21412 <i>E 6190</i>	---Arsenal Quay.	31° 11.8' N 29° 52.6' E	Fl.G.				
21412.5 <i>E 6173.5</i>	El Agamy.	31° 09.0' N 29° 47.5' E	Fl.(2)W. period 15s	56 17	15	White stone tower, black stripes; 46.	
	RACON		O(---)				(3 & 10 cm)
21413 <i>E 6191</i>	--El Dikhelia Range, front.	31° 08.4' N 29° 48.6' E	Fl.W. period 3s fl. 1s, ec. 2s	45 14	14	White round metal beacon, black bands.	
21413.5 <i>E 6191.1</i>	--Rear , 650 meters 173° from front.	31° 08.0' N 29° 48.6' E	Iso.W. period 2s	102 31	17	Yellow concrete tower, red bands.	
21413.7 <i>E 6191.2</i>	--Breakwater, head.	31° 09.4' N 29° 48.4' E	Fl.G. period 4s fl. 1s, ec. 3s	46 14	5	Metal beacon on concrete base.	
21414 <i>E 6191.3</i>	--Jetty, head.	31° 08.4' N 29° 48.6' E	Fl.R. period 4s fl. 1s, ec. 3s	33 10	2	Metal beacon; 16.	
21416 <i>E 6179</i>	Al Dukhaylah AVIATION LIGHT.	31° 07.7' N 29° 47.9' E	Al.Fl.W.G.	30 9			
21418 <i>E 6193</i>	Ra's el Shaqiq.	30° 57.3' N 28° 49.7' E	Fl.(3)W. period 15s	154 47	20	White daymark on framework tower; 49.	Radiobeacon.
	RACON		Q(---•)				
21420 <i>E 6194</i>	Ra's Alam ar Rum.	31° 21.6' N 27° 20.4' E	Fl.W. period 5s	157 48	12	White steel post, red band, on concrete base; 33.	
	RACON		Z(---••)				
21422 <i>E 6198</i>	--Mersa Matruh, entrance, W. side.	31° 22.1' N 27° 13.7' E	Q.G.	20 6	5	Green round fiberglass tower.	

Visibilities (ranges) of lights in Egypt are undependable.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
EGYPT							
21422.1 E 6198.1	--E. side.	31° 22.1' N 27° 13.8' E	Q.R.	20 6	5	Red round fiberglass tower.	
21424 E 6204	Sidi Barrani (Ras Haleima).	31° 37.3' N 25° 54.5' E	Fl.(2)W. period 15s	66 20	12	White steel post, red top, on concrete base; 33.	
	RACON		K(— • —)				
21428 E 6206	As Sallum, pier, head.	31° 33.7' N 25° 09.8' E	Fl.(3)W. period 20s	46 14	12	White steel post, black top, on concrete base; 33.	
	RACON		M(— —)				
Visibilities (ranges) of lights in Egypt are undependable.							
LIBYA							
21432 E 6210	Bardiyah (Bardia).	31° 45.6' N 25° 06.5' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	318 97	12	Metal framework structure, black and white concrete base.	
21436 E 6214	Ra's Azzaz, on point.	31° 58.2' N 24° 58.8' E	Fl.W. period 3s	52 16	10	White iron framework structure, black bands; 36.	
MARSA TUBRUQ (TOBRUK):							
21440 E 6221	--On the point.	32° 04.4' N 24° 00.6' E	Fl.G. period 5s fl. 1s, ec. 4s	20 6	6	White pyramidal tower with black diagonal stripes; 16.	<i>Temporarily extinguished (1996).</i>
21444 E 6224	--Range, front.	32° 03.3' N 24° 00.9' E	Q.W.	69 21	7	Metal framework tower, white diamond daymark.	<i>Temporarily extinguished (1996). Occasional.</i>
21448 E 6224.1	--Rear, 314 meters 224°48' from front.	32° 03.2' N 24° 00.8' E	Iso.W. period 2s	85 26	7	Metal framework tower, white diamond daymark.	<i>Temporarily extinguished (1996). Occasional.</i>
21450 E 6226	--Marsa El Hariga Oil Terminal. E. end.	32° 03.7' N 24° 00.3' E	F.R.	30 9	2	Dolphin.	<i>Temporarily extinguished (1996).</i>
21450.1 E 6226.2	--Berth No. "2", E. end.	32° 03.7' N 24° 00.2' E	2 F.G. (vert.)	33 10	2		2 meters apart. <i>Temporarily extinguished (1996).</i>
21450.2 E 6226.4	---W. end.	32° 03.7' N 24° 00.2' E	2 F.G. (vert.)	33 10	2		2 meters apart. <i>Temporarily extinguished (1996).</i>
21451 E 6227	--T-head pier, center.	32° 04.0' N 23° 59.4' E	2 F.G.		2		2 F.R. mark E. and W. ends of jetty head. <i>Temporarily extinguished (1996).</i>
21452 E 6220	Main light.	32° 05.3' N 23° 59.4' E	Fl.(3)W. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	174 53	15	Metal framework tower on black and white checkered building.	<i>Temporarily extinguished (1996).</i>
21456 E 6228	--Quay No. "4", extension.	32° 04.6' N 23° 58.9' E	Q.R.				F.R. lights on Silo 410 meters N.?? <i>Temporarily extinguished (1996).</i>
21464 E 6230	--Quay No. : "1", W. end.	32° 04.8' N 23° 58.6' E	Oc.R.G. period 15s lt. 10s, ec. 5s				G. 301°-026°, R.-181°. <i>Temporarily extinguished (1996).</i>
21468 E 6234	Ra's at Tin.	32° 37.3' N 23° 07.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	110 34	10	Black iron framework truncated pyramidal structure; 22.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
LIBYA							
DARNAH (DERNA):							
21472 E 6236	-Derna.	32° 44.5' N 22° 41.0' E	Fl.(4)W. period 20s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 15s	197 60	20	White tower, black stripes; 34.	
21476 E 6238	-N. mole, head.	32° 45.9' N 22° 39.8' E	Fl.(2)G. period 6s	39 12	7	Black iron framework structure; 23.	
21480 E 6239	-S. mole, head.	32° 45.9' N 22° 39.7' E	Fl.R. period 5s	39 12	6		
21484 E 6242	Ra's al Hilal.	32° 55.4' N 22° 10.7' E	Fl.(3)W. period 17.5s fl. 0.5s, ec. 3s fl. 0.5s, ec. 3s fl. 0.5s, ec. 10s	72 22	10	Black and white checkered pyramid; 39.	Obscured on bearings less than 100°.
21488 E 6244	Apollonia.	32° 54.1' N 21° 58.0' E	Fl.W. period 6s fl. 1s, ec. 5s	82 25	11	White concrete pyramidal tower; 23.	
21492 E 6246	Ra's Amir.	32° 56.2' N 21° 42.5' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	95 29	11	White concrete pyramidal tower with black bands; 36.	
21496 E 6248	Tulmaythah, summit of point.	32° 42.9' N 20° 56.7' E	Fl.(3)W. period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	69 21	12	Black metal framework tower on white concrete base with black bands; 52.	Reserve light of low power, F.W., F.R. and Fl.R. lights on radio tower exist 20M. SW.
21500 E 6250	Sidi Suwaykir.	32° 20.0' N 20° 17.3' E	Fl.(4)W. period 15s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 10s	69 21	13	White square tower; 49.	
21504 E 6251.5	-Ras el Mingar, jetty extension.	32° 11.0' N 20° 05.2' E	Fl.W. period 3s	42 13	5	On mooring dolphin.	
21508 E 6251.8	Banghazi.	32° 07.4' N 20° 03.7' E	Fl.W. period 3s	133 41	17	Brown water tower; 73.	F.R. and Fl.R. lights on radio mast 2.5 km. 130°30'. F.R. light on radio mast 4.54 km. 203°.
21509 E 6252	-Main harbor, N. breakwater, head.	32° 06.9' N 20° 01.6' E	Fl.R. period 3s fl. 1s, ec. 2s	43 13	6		
21509.1 E 6252.2	--W. Breakwater, N. head.	32° 06.9' N 20° 02.0' E	Fl.G. period 3s fl. 1s, ec. 2s	43 13	6		
21510 E 6252.4	--	32° 07.1' N 20° 02.5' E	Dir.F.W.R.G.	43 13	W. 14 R. 9 G. 9		G. 062°30'-064°42', W.-067°12', R.-069°30'.
21511 E 6252.6	--No. "4" Berth.	32° 06.8' N 20° 02.4' E	Q.R.	16 5	1		
21511.5 E 6252.7	--No. "3" Berth.	32° 06.9' N 20° 02.5' E	Q.W.	16 5	3		
21512 E 6253	--Central Mole, head.	32° 07.1' N 20° 02.7' E	Q.G.	16 5	1		
21516 E 6253.2	-Inner Harbor, Italia Mole, head.	32° 06.9' N 20° 03.0' E	Fl.R. period 3s fl. 0.8s, ec. 2.2s	16 5	2		
21517 E 6253.3	--No. "1/18" Berth.	32° 06.8' N 20° 02.9' E	Fl.W. period 3s fl. 1s, ec. 2s	16 5	4		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
LIBYA							
21518 <i>E 6253.4</i>	--No. "19/M8" Berth.	32° 06.7' N 20° 03.1' E	Q.W.	16 5	3		
21519 <i>E 6253.5</i>	--"MB" Berth.	32° 06.5' N 20° 03.0' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	16 5	3		
21520 <i>E 6253.6</i>	--No. "B22" Berth.	32° 06.8' N 20° 03.1' E	Q.R.	16 5	1		
21521 <i>E 6253.7</i>	--No. "B22A" Berth.	32° 06.9' N 20° 03.2' E	Fl.(3)R. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	16 5	2		
21524 <i>E 6254.5</i>	-Outer Harbor, W. breakwater, S. head.	32° 05.8' N 20° 02.3' E	Q.R.	43 13	4		
21526 <i>E 6254.6</i>	--Breakwater, head.	32° 05.6' N 20° 02.4' E	Iso.W. period 5s	33 10	6		
21528 <i>E 6254.7</i>	--Breakwater, head.	32° 05.8' N 20° 02.5' E	Fl.(3)G. period 10s fl. 0.3s, ec. 1s fl. 0.3s, ec. 1s fl. 0.3s, ec. 7.1s	43 13	4		
21534 <i>E 6255.4</i>	-Radio mast.	30° 50.0' N 20° 03.1' E	Q.R.	449 137	15	Radio mast.	2 F.R. on same structure, 97 meters and 56 meters.
21536 <i>E 6255.45</i>	Az Zuwaytinah Terminal Buoy.	30° 56.0' N 20° 00.0' E	Mo.(Z)W. period 10s			SAFE WATER RW, pillar, topmark.	
21540 <i>E 6255.5</i>	-Range, front.	30° 53.3' N 20° 03.7' E	Fl.Y. period 1.5s fl. 0.5s, ec. 1s	23 7	10	Mast on tripod, black and red rectangular daymark.	
21544 <i>E 6255.51</i>	--Rear, 750 meters 135° from front.	30° 53.0' N 20° 04.1' E	Oc.Y. period 10s lt. 6s, ec. 4s	43 13	10	Mast on tripod, black and red rectangular daymark.	
21545 <i>E 6255.6</i>	-Wayfeya.	30° 54.0' N 20° 03.5' E	Fl.(6)W. period 10s		5	White mast.	
21546 <i>E 6255.7</i>	Small craft harbor, pier, head.	30° 53.9' N 20° 04.1' E	Fl.(2)W. period 13s	102 31	16		Q.R. marks dolphin 370 meters WSW.
MARSA AL BURAYQAH:							
21556 <i>E 6256.4</i>	-East Channel Range, front.	30° 25.2' N 19° 37.4' E	Q.R.			Black, white, and red beacon.	
21560 <i>E 6256.41</i>	--Rear, 660 meters 143°41' from front.	30° 24.9' N 19° 37.7' E	Fl.R.			Black, white, and red beacon.	
21562 <i>E 6256.2</i>	-E. breakwater, head.	30° 25.0' N 19° 35.7' E	Q.R.	39 12	15		
21564 <i>E 6256</i>	-W. breakwater, head.	30° 25.1' N 19° 35.4' E	Fl.G. period 3s	39 12	15	Black structure.	
21568 <i>E 6257</i>	-Common Range, front.	30° 25.0' N 19° 34.2' E	Oc.R.			Black, white, and red beacon.	
21572 <i>E 6256.9</i>	--Berth Nos. "1" and "2" approach, rear, 1,408 meters 236°05' from front.	30° 24.6' N 19° 33.5' E	F.R.			Black, white, and red mast.	
21576 <i>E 6257.1</i>	--Approach rear, 1,445 meters 239°06' from front.	30° 24.6' N 19° 33.6' E	F.R.			Black, white, and red mast.	
21580 <i>E 6258</i>	-Berth No. "1" Range, front.	30° 24.6' N 19° 35.7' E	I.Q.W. period 8s			Black, white, and red beacon.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
LIBYA							
21584 <i>E 6258.1</i>	--Rear, 770 meters 167° 38' from front.	30° 24.2' N 19° 35.8' E	I.Q.W. period 15s			Black, white, and red beacon.	
21588 <i>E 6259</i>	-Berth No. "2" Range, front, 660 meters 145°48' from common rear.	30° 24.8' N 19° 36.6' E	Oc.R.			Black, white, and red beacon.	
21590 <i>E 6259.2</i>	-Front, 660 meters 147°20' from common rear.	30° 24.8' N 19° 36.6' E	Oc.R.			Black, white, and red beacon.	
21592 <i>E 6259.1</i>	--Common rear.	30° 24.5' N 19° 36.9' E	Q.R.			Black, white, and red beacon.	
21596 <i>E 6260</i>	-Berth No. "3", mooring island.	30° 26.0' N 19° 33.9' E	F.R.	92 28		Metal tower; 69.	
21598 <i>E 6264</i>	-Gas jetty, SE. end.	30° 24.7' N 19° 35.2' E	F.G.				
21600 <i>E 6264.4</i>	--NE. end.	30° 24.9' N 19° 35.0' E	F.R.				
21602 <i>E 6264.5</i>	-Intake.	30° 25.2' N 19° 36.4' E	FI.G.			Black pile.	
21604 <i>E 6263</i>	-Inner Harbor approach Range, front.	30° 24.6' N 19° 35.0' E	F.Y.			Beacon.	
21608 <i>E 6263.1</i>	--Rear, 370 meters 223°58' from front.	30° 24.4' N 19° 34.9' E	F.Y.			Beacon.	
21612 <i>E 6266</i>	Ra's al Unuf.	30° 30.7' N 18° 32.3' E	Q.(2)W. period 5s fl. 0.2s, ec. 1s fl. 0.2s, ec. 3.6s	164 50	15	White water tower; 171.	Aero Radiobeacon 12 miles NW.
			F.R.	171 52			Obstruction.
21613 <i>E 6266.3</i>	-Breakwater, N. head.	30° 30.6' N 18° 35.7' E	Oc.(2)G. period 10s	59 18	5	White and green pillar.	
21614 <i>E 6266.4</i>	-Breakwater, E. head.	30° 30.5' N 18° 35.4' E	FI.R. period 10s	59 18	5	White and red pillar.	
21615 <i>E 6266.5</i>	-Range, Front.	30° 30.9' N 18° 34.3' E	F.W.	39 12	9	Framework tower, white triangle, black stripe, point up.	
21615.1 <i>E 6266.51</i>	--Rear, 287°30', 220 meters from front.	30° 31.0' N 18° 34.1' E	F.W.	56 17	4	Framework tower, white triangle, black stripe, point down.	
21615.2 <i>E 6266.6</i>	-Jetty, head, Berth No. "1".	30° 30.1' N 18° 35.3' E	2F.W. (vert.)	30 9	4	Dolphin.	
21615.3 <i>E 6266.7</i>	--Berth No. "2".	30° 30.0' N 18° 35.2' E	3F.W. (vert.)	30 9	4	Dolphin.	
21615.4 <i>E 6266.8</i>	--Berth No. "3".	30° 29.8' N 18° 35.0' E	4F.W.	30 9	4		Lights form square shape.
21615.5 <i>E 6267</i>	As Sidrah.	30° 36.9' N 18° 16.9' E	Oc.R. period 3s lt. 2s, ec. 1s	394 120	8	Radio tower; 164.	
			F.R.	308 94			
21616 <i>E 6267.2</i>	-SPM No. "5" Approach.	30° 37.4' N 18° 22.5' E	F.W.R.G.			Black cross, white background on beacon.	G. 213°24'-218°24', R.-228°24', W.-233°24'. Beacons in line 223°25'.
21621 <i>E 6267.6</i>	Rigl Matratin, jetty, head.	30° 38.3' N 18° 22.2' E	FI.G.		5		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
LIBYA							
MISRATAH:							
21621.5 E 6267.7	-S. breakwater, head.	30° 38.1' N 18° 22.1' E	Fl.R.				
21624 E 6268	Sirte.	31° 12.5' N 16° 35.6' E	Fl.W. period 5s fl. 1s, ec. 4s	115 35	15	White water tower.	
21628 E 6274	-Ra's al Bara Barq.	32° 22.3' N 15° 12.8' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	79 24	8	White iron framework structure on square tower, black stripes; 26.	F. and Fl.R. obstruction lights exist 14.1 km. 285°.
21628.5 E 6275	-Qasr Ahmad, N. breakwater, head.	32° 22.2' N 15° 13.7' E	Fl.G. period 10s fl. 0.5s, ec. 9.5s			Grey beacon.	
21628.6 E 6276	--S. breakwater, head.	32° 22.1' N 15° 13.6' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s			Grey beacon.	
21629.5 E 6277	--Range, front.	32° 22.1' N 15° 12.8' E	Fl.G. period 5s			White triangular daymark, point up, red band.	
21629.51 E 6277.1	---Rear, 500 meters 270° from front.	32° 22.1' N 15° 12.3' E	Fl.G. period 12s			White triangular daymark, point down, red band.	
21630 E 6278	-Steelworks Range, front.	32° 20.4' N 15° 14.4' E	Q.Y.	36 11	7		
21630.1 E 6278.1	--Rear, 430 meters 263° from front.	32° 20.4' N 15° 14.2' E	Iso.Y. period 6s	62 19	7		
21631 E 6278.4	--Outer breakwater, head.	32° 20.6' N 15° 15.4' E	Oc.G. period 4s lt. 3s, ec. 1s	39 12	5		Horn: 1 bl. ev. 20s. (bl. 2s, si. 18s).
21631.1 E 6278.6	--Bulk Berth.	32° 20.7' N 15° 14.8' E	2 F.G. (vert.)	23 7	1		2 meters apart.
21631.5 E 6298.5	--Inner breakwater, head.	32° 20.5' N 15° 14.4' E	Fl.R. period 5s fl. 1s, ec. 4s	33 10	1		
21632 E 6280	Al Qalb.	32° 29.6' N 14° 34.3' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	115 35	10	Iron skeleton structure on hut with black and white stripes; 16.	F.R. and Fl.R. obstruction lights on mast 1 mile SSE.
21636 E 6284	Al Khums, N. part of town.	32° 39.6' N 14° 15.2' E	Fl.(2)W. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	85 26	12	White round tower, black bands; 61.	F.R. and Fl.R. obstruction lights on radio mast about 1.5 miles SW.
21640 E 6288	Ra's al Hallab.	32° 48.0' N 13° 48.4' E	Fl.(3)W. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	115 35	12	Iron framework structure on white circular tower; 71.	
21644 E 6290	Ra's Tajura.	32° 53.7' N 13° 23.2' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	112 34	14	Black and white checkered square masonry tower.	Obscured 097°-109°. F.R. light on radio mast 2.25 miles SW.
21648 E 6292	Sidi Otman (Wheelus Airfield), AVIATION LIGHT.	32° 54.2' N 13° 16.4' E	Al.Fl.W.G. period 10s	185 56	W. 29 G. 24	Red and white checkered water tower; 165.	Occasional.
TARABULUS (TRIPOLI):							
21652 E 6294	-Spanish Fort, Spanish Mole, N. root.	32° 54.3' N 13° 10.7' E	Fl.(2)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	197 60	12	White tower, black bands; 89.	F.R. and Fl.R. on radio masts 0.83 mile SSE. and 13.4 miles S. 2 F.R. on 2 masts 5.6 miles SW. F.R. on water towers 0.4 mile SW.
21656 E 6296	-Approach Range, front.	32° 54.5' N 13° 13.7' E	F.R.	55 17		Red and white triangle daymark, point up.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
LIBYA							
21660 <i>E 6296.1</i>	--Rear, 130 meters 175° from front.	32° 54.0' N 13° 14.0' E	F.R.	81 25		Red and white triangle daymark, point down.	
21664 <i>E 6296.4</i>	-Entrance No. "1".	32° 56.1' N 13° 13.3' E	Fl.G. period 3s	42 13	10	Green articulated beacon.	
21668 <i>E 6296.5</i>	--No. "2".	32° 56.1' N 13° 13.7' E	Fl.R. period 3s	42 13	10	Red articulated beacon.	
21672 <i>E 6296.6</i>	--No. "4".	32° 55.4' N 13° 13.7' E	Fl.(2)R. period 6s	43 13	10	Beacon.	
21676 <i>E 6299</i>	-N. breakwater, head.	32° 55.2' N 13° 13.0' E	L.Fl.G. period 8s fl. 2s, ec. 6s	33 10		Black and white column.	
21680 <i>E 6299.5</i>	-E. breakwater, head.	32° 55.0' N 13° 13.0' E	L.Fl.R. period 8s fl. 2s, ec. 6s	33 10		Red and white column.	
21684 <i>E 6306</i>	-Entrance Range, front.	32° 53.8' N 13° 10.9' E	F.G.	79 24		Column.	
21688 <i>E 6306.1</i>	--Rear, about 300 meters 233° from front.	32° 53.7' N 13° 10.8' E	F.G.	102 31		Mast on building.	<i>Temporarily extinguished (1988).</i>
21692 <i>E 6304</i>	-Spanish Mole, head.	32° 54.4' N 13° 11.8' E	Iso.G. period 4s	34 10	4	Green concrete column, black and white daymark; 34.	
21696 <i>E 6305</i>	-Karamanli mole, head.	32° 54.3' N 13° 11.8' E	Fl.(2)R. period 6s	33 10	4	Red concrete column, red and white daymark.	
21700 <i>E 7860</i>	Bouri Oilfield, SPM.	33° 54.3' N 12° 39.5' E	Mo.(U)W. period 15s				
RACON		A(•-)					
21701	-East Platform RACON.	33° 54.8' N 12° 41.9' E	U(••-)				
21702	-West Platform RACON.	33° 53.8' N 12° 38.3' E	M(- -)				
21708 <i>E 6316</i>	Marsa Dilah.	32° 47.5' N 12° 45.0' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	79 24		Red metal column on red and white checkered building.	
21712 <i>E 6318</i>	Marsa Zuwaghah.	32° 48.8' N 12° 25.8' E	Iso.W. period 2s	66 20	11	Red iron structure on white square masonry hut, black band; 19.	
21716 <i>E 6322</i>	Zuwarah, N. breakwater, root.	32° 55.5' N 12° 07.2' E	Fl.W. period 5s fl. 1s, ec. 4s	49 15	12	Metal framework tower white hut, black bands.	
21720 <i>E 6323</i>	-N. breakwater, head.	32° 55.4' N 12° 07.2' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	19 6	3	Metal framework tower on white hut.	
21722 <i>E 6324</i>	-S. breakwater, head.	32° 55.4' N 12° 07.2' E	Q.R.		3	Red metal framework tower; 10.	
21724 <i>E 6325</i>	Abukamash Industrial Complex Jetty, head.	33° 05.7' N 11° 50.0' E	V.Q.R., V.Q.G.				
21728 <i>E 6326</i>	Farwah.	33° 06.4' N 11° 44.7' E	L.Fl.W. period 5s fl. 2s, ec. 3s	56 17	12	Red tower on black and white building.	
TUNISIA							
21736	"Ra's Zirab" NE. Buoy, about 2 miles NE. of spit.	33° 28.0' N 11° 23.0' E	Q.W.			N. CARDINAL BY, topmark.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TUNISIA							
21738 E 6327	Ras El Keft.	33° 10.7' N 11° 29.3' E	Iso.G. period 6s		5		
			Q.(3)R. period 10s		5		
ZARZIS:							
21740 E 6328	-Main light.	33° 29.7' N 11° 07.1' E	Oc.(2+1)W. period 12s lt. 4s, ec. 1s lt. 4s, ec. 1s lt. 1s, ec. 1s	49 15	15	White octagonal tower, black top; 46.	Visible 180°-090°.
21741 E 6328.2	--Breakwater, head.	33° 28.7' N 11° 08.2' E	Fl.(2+1)W. period 15s fl. 1s, ec. 5.2s fl. 1s, ec. 5.2s fl. 1s, ec. 1.6s	36 11	12	Red and white tower; 30.	
21744	-Entrance channel Buoy "1".	0° 00.0' 0° 00.0'	F.G.			Black buoy, cone topmark, marked "1 Zarzis" in white.	
21748	--Buoy "2".	0° 00.0' 0° 00.0'	F.R.			Red buoy, can topmark, marked "2 Zarzis" in white.	
21760 E 6330.2	-Arghir.	33° 45.2' N 11° 01.0' E	Fl.W. period 4.5s fl. 0.5s, ec. 4s	22 7	9	Round tower, white and red bands.	Visible 258°-010°. Reserve light F.G.
21764 E 6332	-Ra's Taguermess.	33° 49.3' N 11° 02.7' E	Fl.W. period 5s fl. 0.3s, ec. 4.7s	210 64	24	White cylindrical tower, red bands, dwelling; 160.	
21768	-"Djerba O" buoy.	33° 57.2' N 10° 52.3' E	Iso.W. period 6s			SAFE WATER RW, can, topmark.	Radar reflector.
21772 E 6339	-Djerba-Mellita, AVIATION LIGHT.	33° 52.2' N 10° 47.3' E	Al.Fl.W.G. period 10s	121 37	W. 29 G. 26	Tower; 85.	
21776 E 6334	-Hawmat as Sug (Djerba), on wharf.	33° 53.1' N 10° 51.2' E	Oc.(2)W. period 7s lt. 4s, ec. 1s lt. 1s, ec. 1s	30 9	14	Red and white pylon on yellow dwelling; 28.	An access channel at 184° is marked by F.G. and F.R. lighted beacons. Visible 080°-320°.
21780 E 6338	-Burj Jillij.	33° 53.1' N 10° 44.6' E	Fl.R. period 5s fl. 0.3s, ec. 4.7s	52 16	9	White octagonal tower, upper part black; 38.	
-Ajim:							
21784 E 6344	--N. side of W. channel entrance.	33° 42.1' N 10° 36.3' E	Fl.(2)W. period 9s fl. 1.5s, ec. 1.5s fl. 1.5s, ec. 4.5s	16 5	8	Tank on pylon; 16.	Visible 340°-250°. Fl.(5)R. 20s 5M about 1.3 miles SSW.
ILE DE DJERBA:							
21804 E 6342.4	-Bordj Adjim, beacon No. "1".	33° 41.8' N 10° 44.1' E	Fl.(3)G. period 15s fl. 1s, ec. 1.5s fl. 1s, ec. 5s fl. 1s, ec. 5.5s	16 5	5	Green metal tripod.	Visible 285°-015°. Dredged channel marked by lighted beacons.
21806 E 6345	Zarat.	33° 41.9' N 10° 21.8' E	Fl.(3)G. period 10s fl. 0.6s, ec. 0.6s fl. 0.6s, ec. 0.6s fl. 0.6s, ec. 7s	20 6	5		L.Fl.R. 10s 5M shown close S.
QABIS (GABES):							
21808	-"Ghannouche 0" entrance buoy.	33° 57.0' N 10° 09.0' E	Iso.W. period 6s			SAFE WATER RW, can, topmark.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TUNISIA							
21812 <i>E 6352</i>	-N. jetty, head.	33° 55.4' N 10° 06.7' E	Fl.G. period 4s fl. 1s, ec. 3s	39 12	15	Green conical tower; 16.	
21816 <i>E 6352.4</i>	-S. jetty, head.	33° 55.2' N 10° 06.5' E	Oc.R. period 1.5s lt. 1s, ec. 0.5s	39 12	6	Red conical tower; 16.	
21820 <i>E 6348</i>	-Main light.	33° 53.6' N 10° 06.8' E	Fl.(2)W. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	42 13	20	White octagonal tower, black top; 36.	Visible 124°-304°. Red lights on pylon 0.9 mile SW.
21821 <i>E 6349</i>	-Fishing Harbor N. jetty, head.	33° 53.6' N 10° 07.2' E	Fl.(2)G. period 9s fl. 0.5s, ec. 2s fl. 0.5s, ec. 6s	33 10	6	Hexagonal tower.	
21822 <i>E 6350</i>	--S. jetty, head.	33° 53.6' N 10° 07.1' E	Fl.R. period 6.5s fl. 0.5s, ec. 6s	33 10	6	Hexagonal tower.	
AL SKHIRRA:							
21828 <i>E 6354</i>	-Approach, oil terminal.	34° 19.8' N 10° 07.9' E	Fl.G. period 3s fl. 1s, ec. 2s	105 32	20	Pylon on house.	
21832 <i>E 6356</i>	-Oil pier, head.	34° 18.3' N 10° 09.5' E	F.R.	105 32	5		
21834 <i>E 6358</i>	Mahares.	4° 30.9' N 10° 29.9' E	Dir.F.W.R.G.	29 9	3	White pylon.	
21836 <i>E 6359</i>	Ra's Thinah , on hill 2.8 km. 285° from point, N. side of Khalij Qabis.	34° 39.0' N 10° 41.1' E	Fl.(2)W. period 10s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 7.2s	182 55	24	White cylindrical tower, red bands, white dwelling; 144.	
SFAX:							
21845 <i>E 6362.5</i>	-S. breakwater, head.	34° 42.7' N 10° 46.0' E	Fl.R. period 5s fl. 1s, ec. 4s	13 4	10	Red tower.	
21846 <i>E 6362.6</i>	-N. breakwater, head.	34° 42.8' N 10° 46.1' E	Fl.G. period 4s fl. 1s, ec. 3s	13 4	10	Green tower.	
21847 <i>E 6362.7</i>	-Detached breakwater, N. extremity.	34° 42.7' N 10° 46.3' E	Iso.R. period 6s	13 4	10	Red tower.	
21848 <i>E 6362</i>	-Port Light, on Quai du Commerce.	34° 43.8' N 10° 46.1' E	Dir.Oc.(2)W. period 8s lt. 4.5s, ec. 1s lt. 1.5s, ec. 1s	58 18	13	Iron skeleton structure on sentry box, lower part gray, middle part white, upper part black; 55.	Intensified 319°-325°.
21852 <i>E 6366.6</i>	-Balise de Ras Djilja, N. extremity of Ile Sherki.	34° 49.8' N 11° 14.8' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	33 10	6	Tank on concrete base, upper part white, black below; 28.	Radiobeacon about 11 km. 155°.
QARQANAH:							
21856	- <i>"Kerkennah 8"</i> buoy.	34° 27.2' N 10° 55.7' E	Q.(6)+L.Fl.W. period 15s			S. CARDINAL YB, can, topmark.	
-RACON			X(---)				
21860	- <i>"Kerkennah 7"</i> buoy, SE. of Ile Rhabi.	34° 32.0' N 11° 09.0' E	V.Q.(6)+L.Fl.W. period 10s			S. CARDINAL YB, can, topmark.	
21864	- <i>"Kerkennah 6"</i> buoy, S. side of bank.	34° 37.2' N 11° 23.4' E	Q.(6)+L.Fl.W. period 15s			S. CARDINAL YB, can, topmark.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TUNISIA							
21868	- <i>Kerkennah 5"</i> buoy, off SE. edge of bank.	34° 42.0' N 11° 38.0' E	Q.(3)W. period 10s			E. CARDINAL BYB, can, topmark.	
21872 E 6366.4	- <i>Kerkennah 4"</i> buoy, off E. edge of bank.	34° 53.4' N 11° 47.1' E	Q.(3)W. period 10s			E. CARDINAL BYB, can, topmark.	
21876	- <i>Kerkennah 4 bis"</i> buoy.	34° 51.6' N 11° 50.4' E	Q.(3)W. period 10s			E. CARDINAL BYB, can, topmark.	
	-RACON		K(- • -)				
21880	- <i>Kerkennah 3"</i> buoy, off E. side of bank.	34° 59.0' N 11° 43.0' E	V.Q.(3)W. period 5s			E. CARDINAL BYB, can, topmark.	
21884	- <i>Kerkennah 2"</i> buoy, off NE. edge of bank.	35° 02.0' N 11° 38.0' E	Q.(3)W. period 10s			E. CARDINAL BYB, can, topmark.	
21888 E 6366	- <i>Kerkennah 1"</i> buoy, off N. edge of bank.	35° 06.0' N 11° 33.0' E	V.Q.(3)W. period 5s			E. CARDINAL BYB, can, topmark.	
21892	- <i>Kerkennah 0"</i> buoy, middle of N. entrance to Kerkennah Channel.	35° 04.0' N 11° 16.0' E	Fl.G. period 4s fl. 1s, ec. 3s			STARBOARD (A) G, topmark.	
21897 E 6364	Port de Loueta, W. coast.	35° 02.5' N 11° 02.0' E	Fl.(3)R. period 6s fl. 0.3s, ec. 0.3s fl. 0.3s, ec. 0.3s fl. 0.3s, ec. 4.5s	23 7	5	Red tower.	
21897.2 E 6364.2	-E. coast.	35° 02.5' N 11° 02.1' E	Fl.(2)G. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	23 7	5	Green tower.	
21898 E 6369	Chebba, N. jetty.	35° 13.1' N 11° 10.0' E	Fl.(2)G. period 9s fl. 0.5s, ec. 2s fl. 0.5s, ec. 6s	26 8	6	Green tower.	
21899 E 6369.2	-S. jetty.	35° 13.0' N 11° 10.0' E	Fl.R. period 6.5s fl. 0.5s, ec. 6s	26 8	6	Red tower.	
21900 E 6368	Ras Kapudia (La Chebba).	35° 14.0' N 11° 09.4' E	Fl.(2)W.R. period 9s fl. 1.5s, ec. 1.5s fl. 1.5s, ec. 4.5s	92 28	W. 19 R. 14	Red and white striped tower, triangular daymark, point down; 59.	W. 135°-325°, R.-135°.
21904 E 6370	Al Mahdiah.	35° 30.5' N 11° 04.9' E	Fl.R. period 5s fl. 0.3s, ec. 4.7s	86 26	17	White hexagonal tower, red top, on dwelling; 49.	
21908 E 6371	-S. jetty, head.	35° 29.8' N 11° 04.1' E	Fl.W. period 2s	30 9	4	Aluminum colored pylon.	
21912 E 6371.2	--Spur, head.	35° 30.0' N 11° 04.2' E	F.G.	19 6	3		
21913 E 6371.4	--Outer spur, head.	35° 29.8' N 11° 04.1' E	Fl.(2)G. period 6s fl. 0.3s, ec. 1s fl. 0.3s, ec. 4.4s	20 6	6		
21916 E 6372	-W. spur, head.	35° 30.0' N 11° 04.1' E	F.R.	16 5	3		
21917 E 6372.6	-Breakwater, SE. head.	35° 29.8' N 11° 04.2' E	Fl.(2)R. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	13 4	6		
21920 E 6380	Jazirat Qurayyat.	35° 47.9' N 11° 02.0' E	Fl.W.R. period 5s fl. 1s, ec. 4s	98 30	W. 18 R. 14	White square tower, red top, white base; 85.	R. 348°-053°, W.-348°.
21921 E 6373.6	Teboulba, NW.	35° 39.5' N 10° 57.4' E	L.Fl.G. period 10s	23 7	5	Green stone tower; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TUNISIA							
21922 E 6373.8	-NE.	35° 39.5' N 10° 57.6' E	L.FI.R. period 10s	23 7	5	Red stone tower; 20.	
21925 E 6373	Saiadah, NW.	35° 40.4' N 10° 53.6' E	FI.G. period 4s fl. 1s, ec. 3s	23 7	6	Green stone tower; 20.	
21926 E 6373.2	-NE.	35° 40.0' N 10° 54.0' E	FI.(3)R. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	23 7	6	Red stone tower; 20.	
21932 E 6374	Al Munastir, Burj el Kelb, S. of town.	35° 45.6' N 10° 50.3' E	FI.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	85 26	10	Minaret with black bands on east and south face; 20.	Visible 197°-355°.
21933 E 6376	-Fishing Port, covered mole, extremity.	35° 45.5' N 10° 50.0' E	FI.R. period 1.5s fl. 0.3s, ec. 1.2s	20 6	3	Red metal pylon.	
21935 E 6377.2	-Breakwater, S. extremity.	35° 47.0' N 10° 50.0' E	FI.(2)R. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	26 8	6	Red stone tower.	
21936 E 6377	-Marina, E. side.	35° 46.6' N 10° 50.1' E	FI.(2)G. period 10s fl. 2s, ec. 0.5s fl. 1.5s, ec. 6s	26 8	6	Green mast on hut.	
21940 E 6381	Main jetty.	35° 47.4' N 10° 40.9' E	Oc.G. period 5s lt. 4.5s, ec. 0.5s	26 8	5		
21944 E 6381.5	-Secondary jetty.	35° 47.2' N 10° 41.2' E	Oc.(2)W. period 10s lt. 8s, ec. 0.5s lt. 1s, ec. 0.5s	26 8	5		
SUSAH:							
21948 E 6385.7	-Buoy "1", entrance.	35° 50.0' N 10° 40.0' E	L.FI.G. period 6s			STARBOARD (A) G, conical, topmark.	
21952 E 6384	-Jetee Abri.	35° 49.6' N 10° 39.3' E	Oc.W.R. period 4s lt. 3s, ec. 1s	39 12	W. 9 R. 6	Red pylon on white base; 19.	R. 135°-180°, W.-045°.
21956 E 6382	-Susah.	35° 49.4' N 10° 38.3' E	FI.W. period 4s fl. 0.3s, ec. 3.7s	230 70	22	White square tower; 72.	
21960 E 6385	-Epi Nord, head.	35° 49.6' N 10° 39.1' E	Iso.G. period 4s	33 10	8	Green conical tower; 21.	Visible 258°-112°.
21964 E 6385.5	-Epi Sud, head.	35° 49.5' N 10° 39.1' E	FI.R. period 5s fl. 0.5s, ec. 4.5s	33 10	8	Red conical tower; 21.	Visible 079°-277°. Reserve light range 6M.
21972 E 6387	El Kantaoui, marina, E. jetty, head.	35° 53.6' N 10° 36.1' E	FI.G. period 4s fl. 1s, ec. 3s	30 9	6	Green tower; 20.	
21976 E 6387.3	--W. jetty, head.	35° 53.6' N 10° 36.1' E	FI.R. period 5s fl. 1s, ec. 4s	29 9	6	Red tower; 20.	
21976.3 E 6388	Hargalah, large jetty, head.	36° 01.9' N 10° 30.7' E	FI.(2)G. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	16 5	6		
21976.4 E 6388.2	-S. jetty, head.	36° 01.9' N 10° 30.6' E	FI.R. period 5s fl. 0.5s, ec. 4.5s	16 5	6		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TUNISIA							
21976.5 <i>E 6386</i>	Hammamet.	36° 23.7' N 10° 36.9' E	Fl.(2)W. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	56 17	15	Lantern on Casbah wall; 46.	Visible 255°-165°. Reserve light F.W.
21976.6 <i>E 6389.5</i>	Ra's al Ma'murah large jetty, head.	36° 27.1' N 10° 47.1' E	Fl.(2)G. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	16 5	6		
21976.7 <i>E 6389.6</i>	-S. jetty, head.	36° 27.0' N 10° 47.8' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	16 5	6		
21977 <i>E 6390.4</i>	-S. jetty, head.	36° 50.0' N 11° 06.5' E	Fl.W. period 5s fl. 1.5s, ec. 3.5s	16 5	5	White pylon.	
21978 <i>E 6390.42</i>	--Spur No. "3".	36° 50.0' N 11° 06.6' E	Fl.G. period 4s fl. 0.5s, ec. 3.5s	16 5	2	Green pylon.	
21979 <i>E 6390.6</i>	-W. jetty No. "2", head.	36° 50.1' N 11° 06.6' E	Fl.R. period 2s	16 5	2	Red pylon.	
21980 <i>E 6390</i>	Qulaybiyah.	36° 50.2' N 11° 07.0' E	Fl.(4)W. period 20s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 12.2s	269 82	23	White platform, black lantern; 59.	
21982 <i>E 6391</i>	Ras el Melah.	36° 52.3' N 11° 08.1' E	Fl.R. period 4s	79 24	3		
21984 <i>E 6392</i>	Cap Bon (Ra's at Tib).	37° 04.7' N 11° 02.7' E	Fl.(3)W. period 20s fl. 0.2s, ec. 3.8s fl. 0.2s, ec. 3.8s fl. 0.2s, ec. 11.8s	412 126	30	White tower, red top; 66.	Visible 068°-310°, except when obscured by Zembra Island 100°-108°. Radiobeacon 0.7 mile SSW.
21984.5	-Buoy "B".	37° 02.0' N 11° 06.3' E	Fl.(5)Y. period 20s			SPECIAL Y, conical, topmark.	
	-RACON		G(- - •)				
21985 <i>E 6392.3</i>	-Pipeline zone, S. end.	37° 00.4' N 11° 03.5' E	Fl.(4)Y. period 15s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	52 16	9	SPECIAL Y, beacon, topmark.	
21985.1 <i>E 6392.4</i>	-North limit of pipeline zone.	37° 01.6' N 11° 03.4' E	Fl.(4)Y. period 15s	52 16	10	SPECIAL Y, beacon, topmark.	
KHALIS TUNIS:							
	-La Goulette:						
21988 <i>E 6394</i>	--Zembretta Isle.	37° 06.3' N 10° 52.4' E	Fl.W. period 4s fl. 1s, ec. 3s	194 59	6	White square tower, lantern, lower part black; 26.	Visible 124°-099°.
21989 <i>E 6394.2</i>	-Ile Zembra, E. entrance.	37° 07.0' N 10° 48.3' E	Fl.(4)G. period 15s	16 5	5		
21989.1 <i>E 6394.4</i>	--W. entrance.	37° 06.9' N 10° 48.4' E	Fl.(5)R. period 20s	11 4	5		
21990 <i>E 6394.5</i>	Sidi Daoud. Fishing harbor, N. jetty, head.	37° 01.1' N 10° 54.3' E	Fl.(2)R. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	10 3	6		
21991 <i>E 6394.6</i>	-S. jetty, head.	37° 01.1' N 10° 54.4' E	Fl.(2)G. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	10 3	6		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TUNISIA							
21992	--Entrance buoy "Goulette 1".	36° 47.0' N 10° 23.0' E	Iso.W. period 4s			SAFE WATER RW, can.	Channel marked by IALA system buoys.
21996 E 6396	--Jetee Nord, No. "9", head.	36° 48.4' N 10° 18.7' E	Fl.(3)W. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	43 13	11	Tripod, green top; 33.	Visible 215°-035° and 090°- 121°. Reserve light F.W. 8M.
22000 E 6397.5	--Port side.	36° 48.3' N 10° 18.5' E	F.R.	43 13	5		
22002 E 6397	--Dique Nord, head.	36° 48.4' N 10° 18.6' E	Fl.(2)G. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	30 9	5		
22004 E 6399	--Dique Sud No. "10".	36° 48.3' N 10° 18.4' E	Fl.R. period 5s	30 9	6	Red truncated tower; 23.	
22008 E 6396.5	--Ro Ro Berth.	36° 48.5' N 10° 18.5' E	Fl.G. period 4s fl. 1s, ec. 3s	23 7	6		
22020 E 6406	---Dir. Lt. 300°, No. "15".	36° 48.8' N 10° 17.6' E	Dir.Fl.W. period 1.5s	40 12	13	Tower with green and white bands; 36.	Intensified 298°30'-301°30'.
22024	--SW. corner of power station.	36° 48.8' N 10° 17.4' E	F.G.				Inner channel marked by lights.
22028 E 6407	---Dir. Lt. 078°, No. "17".	36° 48.8' N 10° 17.5' E	Dir.Oc.(3)R. period 20s	36 11	11	Red metal framework tower; 33.	Intensified 074°-082°.
22032 E 6410	-Tunis.	36° 47.7' N 10° 11.5' E	Dir.Fl.(2)W. period 6s	37 11	11	White building; 33.	Intensified 256°-260°.
22034 E 6400	Shore, S. of Tunis Channel Entrance.	36° 47.9' N 10° 17.0' E	Fl.(2)Y. period 9s fl. 0.5s, ec. 1s fl. 0.5s, ec. 7s	26 8	6	Yellow pylon.	
22040 E 6412	Ras Qartajamah.	36° 52.3' N 10° 20.9' E	Fl.W. period 5s fl. 0.3s, ec. 4.7s	480 146	22	White tower, black top; 39.	
22044 E 6413	-Jetty, SE. extremity.	36° 51.8' N 10° 21.0' E	Fl.G. period 5.5s fl. 1s, ec. 4.5s	26 8	6	Pylon; 13.	
22048 E 6413.2	-Jetty, NW. extremity.	36° 51.9' N 10° 21.0' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	13 4	4	Pedestal; 10.	
22056 E 6414	Al Jazirah al Mussattahah.	37° 10.9' N 10° 19.7' E	Fl.(2)W.R. period 10s	65 20	W. 15 R. 11	White square tower, red bands, white rectangular base, red lantern; 39.	R. 067°-107°, W.-067°.
22060 E 6415	Lac de Porto-Farina, N. jetty, head.	37° 08.9' N 10° 12.6' E	Fl.G. period 2s fl. 0.5s, ec. 1.5s	16 5	3	Tower; 13.	
22062 E 6415.2	-S. jetty, head.	37° 08.5' N 10° 12.6' E	F.R.	16 5	3		
22064 E 6416	Iles Cani.	37° 21.2' N 10° 07.4' E	Fl.(2)W. period 10s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 7.2s	129 39	24	White cylindrical tower, black bands; 70.	
BANZART (BIZERTE):							
22068 E 6420	-Detached breakwater, S. head.	37° 16.6' N 9° 54.1' E	Iso.G. period 4s	49 15	3	White pylon, black top; 26.	Radiobeacon 4.3 miles NNW.
22076 E 6422	--N. head.	37° 16.9' N 9° 53.9' E	Fl.(2)R. period 10s fl. 1s, ec. 1s fl. 1s, ec. 7s	33 10	2	Red conical tower; 26.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TUNISIA							
22078 <i>E 6423</i>	-Zarzouna Fishing Harbor, N. breakwater.	37° 16.1' N 9° 53.8' E	Fl.(2)G. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	20 6	6	Green beacon.	
22078.5 <i>E 6423.4</i>	--E. breakwater.	37° 16.1' N 9° 53.7' E	Fl.(2)R. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	20 6	6	Red beacon.	
22080 <i>E 6426</i>	-Jetee Nord, head.	37° 16.8' N 9° 53.6' E	F.G.	49 15	4	Green conical tower; 26.	Visible 130°-090°.
22084 <i>E 6428</i>	-East Jetty, N. head.	37° 16.6' N 9° 53.6' E	Iso. R. period 4s	79 24	10	Red tower; 56.	
22088 <i>E 6432</i>	-Entree du Goulet, N. head.	37° 16.5' N 9° 53.1' E	Oc.G. period 12s	20 6	7	Green metal framework tower; 16.	Visible 189°-057°.
22092 <i>E 6434</i>	--S. head.	37° 16.4' N 9° 53.2' E	Oc.(2)R. period 9s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 4.5s	20 6	3	Red metal framework tower; 16.	Visible 055°-310°.
22096 <i>E 6436</i>	-Goulet, Quai Nord.	37° 16.0' N 9° 52.3' E	Fl.G. period 4s	16 5	2	Green metal framework tower; 12.	
22100 <i>E 6438</i>	--Quai Sud.	37° 15.9' N 9° 52.4' E	Fl.R. period 4s	16 5	2	Red metal framework tower; 12.	
22104 <i>E 6440</i>	--Pointe de Sebra.	37° 15.6' N 9° 51.7' E	Iso.W.	52 16	8	White tower, black stripes; 49.	
22106 <i>E 6454</i>	-Menzel Abderrahman, Fishing Harbor.	37° 13.9' N 9° 51.7' E	Fl.R. period 5s fl. 1s, ec. 4s	33 10	6		
MANZIL BU RUQAYBAH:							
22108 <i>E 6444</i>	-Port Office.	37° 09.7' N 9° 48.7' E	F.W.R.	69 21	4	White tower; 65.	R. 184°-204°, W.-274°, obscured elsewhere. Limits of sectors not well defined. Occasional.
22120 <i>E 6446</i>	-Digue Est, N. head.	37° 09.5' N 9° 48.9' E	F.R.	26 8	4		
22124 <i>E 6445</i>	-Jetee Nord, E. head.	37° 09.6' N 9° 48.9' E	F.G.	26 8	4		
22132 <i>E 6456</i>	Ras Engela.	37° 20.7' N 9° 44.3' E	Fl.W.R. period 2.5s fl. 0.5s, ec. 2s	125 38	W. 28 R. 25	Black square tower, white band on dwelling; 49.	R. shore west of light-085° W.-shore.
22136 <i>E 6458</i>	Cap Serrat.	37° 13.9' N 9° 12.6' E	Fl.(2)W.R. period 10s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 7.2s	653 199	W. 24 R. 20	Black tower, white band on yellow dwelling; 43.	W. 261°-238°, R.-261°. Signal station.
22144 <i>E 6464</i>	Galiton de l'Ouest.	37° 29.9' N 8° 52.6' E	Fl.(4)W. period 20s fl. 0.4s, ec. 2.9s fl. 0.4s, ec. 2.9s fl. 0.4s, ec. 2.9s fl. 0.4s, ec. 9.7s	551 168	24	Black tower, cupola on gray building; 46.	Obscured 227°-250°. May appear as Fl.(2)W. 20s at a distance.
	-Auxiliary light.		F.R.	524 160	22		Visible 064°-069°.
22145 <i>E 6465</i>	Ile de La Galite, jetty, head.	37° 31.5' N 8° 56.3' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s		6		
22146 <i>E 6465.2</i>	-NE. corner of jetty.	37° 31.5' N 8° 56.4' E	Fl.(2)G. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s		6		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TUNISIA							
22148 <i>E 6460</i>	Jazirat Tabargah.	36° 57.8' N 8° 45.5' E	Oc.W. period 4s lt. 3s, ec. 1s	236 72	17	White tower; 26.	
22152 <i>E 6462</i>	-Fishing harbor, N. mole, head.	36° 57.4' N 8° 45.9' E	Fl.(3)G. period 6s	33 10	8	Green tower.	
22156 <i>E 6462.4</i>	--Digue, E. elbow.	36° 57.5' N 8° 45.9' E	Fl.(3)R. period 12s	33 10	6	Red pylon.	Fl.(4)R. marks head of pier.
22158 <i>E 6463</i>	<i>Ecueils des Sorelles Buoy.</i>	37° 23.9' N 8° 35.3' E	V.Q.(9)W. period 10s	26 8		W. CARDINAL BYB, spherical, topmark.	
	RACON		G(— — •)				(3 & 10 cm)

Section 15

Algeria and Morocco

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ALGERIA							
22164 <i>E 6482</i>	El Kala (La Calle), E. side of entrance.	36° 54.0' N 8° 26.6' E	F.R.	56 17	9	White tower, red lantern; 24.	Obscured by Pointe Noire southward of 091°.
22166 <i>E 6483</i>	-Pointe du Cimetiere, jetty, head.	36° 54.1' N 8° 27.5' E	Fl.G. period 4s	33 10	2	White tower; 13.	
22168 <i>E 6484</i>	Cap Rosa.	36° 56.9' N 8° 14.4' E	Fl.(2)W. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	427 130	10	White round tower; 42.	
ANNABA (BONE):							
22176 <i>E 6486</i>	-Jetee du Lion, head.	36° 54.3' N 7° 47.1' E	Oc.(3)G. period 12s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	62 19	8	White tower; 56.	
22180 <i>E 6490</i>	-Jetee Sud, head.	36° 54.2' N 7° 46.9' E	Oc.(2)R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	52 16	10	White tower; 43.	
22184 <i>E 6492.4</i>	-N. side of Jetee Sud.	36° 54.2' N 7° 46.8' E	F.R.				
22188 <i>E 6495.2</i>	-N. side of entrance to Grand Basin.	36° 54.5' N 7° 46.7' E	F.G.	10 3	2	White square structure; 7.	
22192 <i>E 6495</i>	-Darse de la Grenouillere, S. side of entrance.	36° 54.4' N 7° 46.6' E	F.R.	10 3	2	White square structure; 6.	A F.G. light is shown on N. side of entrance.
22196 <i>E 6496</i>	-Passe Cigogne, SE. corner.	36° 53.8' N 7° 46.1' E	F.G.	26 8	2	White column; 23.	Visible 210°-065°.
22204 <i>E 6504</i>	-Fort Genois.	36° 57.0' N 7° 46.6' E	Oc.(2)W. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	200 61	10	White masonry building; 26.	Obscured 240°-263° within 0.5M.
22208 <i>E 6506</i>	Cap de Garde.	36° 58.1' N 7° 47.1' E	Fl.W. period 5s fl. 0.4s, ec. 4.6s	469 143	31	Gray square tower, white dwelling; 46.	Signal station.
22212 <i>E 6508</i>	Roche Akcine (Axin).	37° 03.2' N 7° 30.8' E	Fl.(2)W. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	52 16	8	ISOLATED DANGER BRB, tower, topmark.	Visible 054°-324°.
BAIE DE TAKOUCH:							
22216 <i>E 6510</i>	-Cap Takouch, N. side of entrance.	37° 04.7' N 7° 23.5' E	Oc.W.R. period 4s lt. 3s, ec. 1s	420 128	W. 8 R. 5	White tower, black cupola; 39.	W. 140°-278°, R.-290°, W.-320°, obsc.-140°.
22220 <i>E 6512</i>	-E. jetty, head.	37° 04.0' N 7° 23.3' E	F.G.	30 9	2	White column; 16.	
22224 <i>E 6514</i>	-W. jetty, head.	37° 04.1' N 7° 23.1' E	F.R.	26 8			

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ALGERIA							
GOLFE DE STORA:							
22228 E 6516	-Cap de Fer.	37° 04.9' N 7° 10.4' E	Fl.(3)W. period 15s fl. 0.4s, ec. 2.6s fl. 0.4s, ec. 2.6s fl. 0.4s, ec. 8.6s	213 65	19	White tower, yellow top; 57.	Obscured by coast between 254° and 312°.
22232 E 6518	-El Mersa.	37° 01.7' N 7° 15.2' E	Iso.W. period 4s	33 10	7	White tower; 16.	
22240 E 6522	-Skikda, N. jetty, head.	36° 53.6' N 6° 54.2' E	Oc.(2)W.R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	69 21	W. 12 R. 9	White tower, upper part red; 46.	W. 160°-288°, R.-160°.
22244 E 6524	--Jettee Ouest (du Chateau-Vert).	36° 53.4' N 6° 54.3' E	F.G.	33 10	5	White tower, upper part green; 27.	Visible 109°-011°.
22248 E 6523	--Traverse Nord, about 46 meters NNE. of head.	36° 53.5' N 6° 54.3' E	F.R.	33 10	6	White tower, red top; 26.	Visible 296°-126°
22252 E 6520	--Port Methanier, main breakwater, head.	36° 53.5' N 6° 56.9' E	Fl.G. period 4s fl. 1s, ec. 3s	52 16	10	Green metal tower; 39.	
22256 E 6520.2	---Lee breakwater, head.	36° 53.3' N 6° 56.8' E	Oc.R. period 4s lt. 3s, ec. 1s	33 10	7	White tower, red top; 20.	2 Oc.W. 5s (occas.) in line 244° 2000 meters WSW.
22264 E 6530	-Ilot des Singes, W. side of gulf.	36° 54.4' N 6° 53.2' E	F.W.G.	55 17	W. 10 G. 6	White square tower, green lantern; 30.	G. 193°30'-216°, W.-023°, G.-080°, obsc.-193°30'.
22268 E 6533	-Ile du Lion.	36° 55.3' N 6° 53.6' E	Fl.G. period 5s			Green square base.	
22272 E 6534	-Ile Sridina.	36° 56.3' N 6° 53.3' E	Fl.R. period 5s fl. 0.6s, ec. 4.4s	176 54	13	Square white tower, dwelling; 38.	Obscured by Point Esrah when bearing less than 122°.
22276 E 6538	-Collo, jetty, head.	37° 00.3' N 6° 34.5' E	F.G.	43 13	5	White column, black lantern; 26.	Obscured when bearing less than 221°.
22280 E 6540	Pointe Djerda.	37° 01.0' N 6° 35.1' E	Fl.G. period 5s fl. 0.6s, ec. 4.4s	85 26	12	White octagonal tower, green lantern; 36.	Obscured 323°-146°.
22284 E 6542	Cap Bougaroun.	37° 05.4' N 6° 28.2' E	Fl.(2)W. period 10s fl. 0.4s, ec. 2.1s fl. 0.4s, ec. 7.1s	298 91	29	White octagonal tower, yellow lantern; 33.	Visible 087°-280°. Signal station.
22288 E 6544	Ras el Moghreb.	37° 01.5' N 6° 15.9' E	Fl.W. period 4s fl. 1s, ec. 3s	98 30	10	White tower; 49.	
JIJEL (DJIDJELLI):							
22292 E 6550	-Jettee Nord, main light, groyne, root.	36° 49.7' N 5° 46.9' E	Oc.(1+2)W.R. period 12s lt. 4s, ec. 1s lt. 1s, ec. 1s lt. 4s, ec. 1s	61 19	W. 12 R. 9	Yellow square tower, black top; 39.	R. 096°-101°, W.-096°. Obscured by heights of Picouveau when bearing less than 094°.
22296 E 6551	--Head.	36° 49.6' N 5° 47.0' E	Iso.G. period 4s	30 9		Black column; 10.	F.R. and F.G. lights mark the heads of the jetties in the inner harbor.
22300 E 6552	-Jettee Sud.	36° 49.5' N 5° 46.8' E	F.R.	23 7	4	Red column; 10.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ALGERIA							
22308 <i>E 6558</i>	Ras Afia.	36° 49.2' N 5° 41.5' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	140 43	23	Yellow octagonal tower, red top; 46.	Visible 027°-255°, obscured by Cap Cavallo southward of 064°. Reserve light F.W.
			Fl.R. period 4s	92 28	14	White hut; 3.	Visible 124°-154°.
22312 <i>E 6560</i>	Hadjret Tafalkout.	36° 46.6' N 5° 34.5' E	Fl.(2)G. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	69 21	5	Pylon; 13.	
22316 <i>E 6562</i>	Ile Mansouria.	36° 40.9' N 5° 28.9' E	F.G.	174 53	4	Column; 20.	
BOUGIE (BEJAIA):							
22320 <i>E 6567</i>	-Jetee Sud.	36° 45.2' N 5° 06.0' E	Oc.(2)R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	36 11	10	White column, red lantern; 26.	Passes Abd-el-Kadar and Kasbah are marked on N. side by a F.G. light and S. side by a F.R. light.
22324 <i>E 6566</i>	-E. jetty.	36° 45.2' N 5° 06.2' E	Oc.W. period 4s lt. 3s, ec. 1s	52 16	12	Black framework tower; 49.	Obscured by Ras Bouak on bearings less than 205°. Radiobeacon.
22328 <i>E 6572</i>	-Cap Carbon.	36° 46.6' N 5° 06.3' E	Fl.(3)W. period 20s fl. 0.1s, ec. 3.9s fl. 0.1s, ec. 3.9s fl. 0.1s, ec. 11.9s	722 220	28	White tower on black and yellow house; 33.	Visible 090°-022°, obscured by Cap Noir to westward of 333°.
22332 <i>E 6573</i>	--Auxiliary light, 150 meters 056° from main light, at foot of cliff.	36° 46.6' N 5° 06.4' E	Q.W.R.	105 32	W. 10 R. 7	White round tower, square dwelling; 26.	W. 094°-114° (obsc. by shore), R.-126°, W.-316°, obsc.-094°, (295°-316° obsc. by shore).
22336 <i>E 6578</i>	Cap Sigli AVIATION LIGHT.	36° 53.5' N 4° 45.2' E	Fl.W. period 5s fl. 0.6s, ec. 4.4s	187 57	17	White cylindrical masonry tower, dwelling; 83.	Obscured by Pointe El Euch when bearing more than 270°, and by Cap Corbelin when bearing less than 093°.
DELLYS:							
22340 <i>E 6580</i>	-Cap Corbelin.	36° 54.5' N 4° 25.2' E	Fl.(2+1)W.R. period 15s	137 42	W. 18 R. 14	White cylindrical tower; gray lantern; 43.	R. 001°-30°-104°-30°, W.-001°-30°. Obscured when bearing less than 266°.
22344 <i>E 6582</i>	-Azeffoun, jetty, head.	36° 54.2' N 4° 25.3' E	Oc.(2)R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	26 8	7	White pedestal, red top; 26.	Obscured by Cap Corbelin.
22348 <i>E 6584</i>	-Pointe de Dellys.	36° 55.4' N 3° 55.4' E	F.R.	135 41	8	Yellow tower, red lantern; 26.	Visible 066°-336°, obscured by Cap Bengut southward of 094°.
22352 <i>E 6588</i>	-Breakwater, head.	36° 54.8' N 3° 55.3' E	Oc.W. period 4s lt. 3s, ec. 1s	39 12	9	White tower, green top; 26.	Obscured by Pointe de Dellys when bearing less than 193°.
22356 <i>E 6590</i>	-SE. angle of S. wharf.	36° 54.9' N 3° 55.2' E	Oc.R. period 4s lt. 3s, ec. 1s	26 8	7	White tower, red top; 23.	Obscured by Pointe de Dellys when bearing less than 203°.
22360 <i>E 6592</i>	Cap Bengut.	36° 55.2' N 3° 53.5' E	Fl.(4)W. period 15s	208 63	30	White square tower, green top, yellow house; 98.	Visible 079°-287°, obscured by Pointe de Dellys southward of 270°.
22364 <i>E 6593.4</i>	Courbet-Marine, Jetee Nord, head.	36° 48.3' N 3° 33.6' E	Q.W.	39 12	6	White tower, red top; 23.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ALGERIA							
22368 <i>E 6594</i>	Cap Matifou AVIATION LIGHT.	36° 48.7' N 3' 14.8' E	Fl.(3)W. period 15s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 8.8s	242 74	23	White square tower, dark green top, dwelling; 36.	Visible 040°-310°. Signal station. Radiobeacon.
22372 <i>E 6596</i>	Tamentfoust (La Perouse), jetty, head.	36° 48.3' N 3' 13.9' E	F.R.	33 10	6	White column, red top, on white base; 23.	Obscured by Cap Matifou when bearing more than 145°.
ALGER (ALGIERS):							
22376 <i>E 6620</i>	-Ecueil M'Tahem.	36° 47.8' N 3' 04.1' E	Q.(3)W. period 10s	40 12	8	E. CARDINAL BYB, tower, topmark, name in white.	Radar reflector.
22380 <i>E 6602</i>	-Passe Nord.	36° 46.7' N 3' 04.8' E	Fl.(2)W. period 3s	75 23	16	White tower; 56.	Visible 154°-055°. Nautophone: Mo.(N) ev. 30s (bl. 3s, si. 3s, bl. 1s, si. 23s). Radiobeacon.
22384 <i>E 6604</i>	--Jetee Waiter, spur.	36° 46.8' N 3' 04.4' E	Fl.G. period 4s fl. 1s, ec. 3s	33 10	7	White tower, green top; 26.	Visible 309°-133°.
22388 <i>E 6606</i>	--Jetee d l'Est, N. end.	36° 46.7' N 3' 04.4' E	Fl.R. period 4s fl. 1s, ec. 3s	33 10	8	White tower, red top; 23.	Visible 059°-014°.
22400 <i>E 6611</i>	--Jetee Mustapha, spur.	36° 45.9' N 3' 04.8' E	Iso.G. period 4s	39 12	8	White tower, green top; 30.	Visible 295°-104°.
22404 <i>E 6610</i>	--Brise-lames Est.	36° 45.8' N 3' 04.7' E	Oc.R. period 4s lt. 3s, ec. 1s	39 12	9	White tower, red top; 30.	Visible 005°-312°.
22408 <i>E 6613</i>	-Bassin de l'Agha, S. entrance, E. side.	36° 46.0' N 3' 04.3' E	F.G.	36 11	4	White tower; 26.	Visible 307°-160°.
22412 <i>E 6612</i>	---W. side (Grand Mole).	36° 45.9' N 3' 04.2' E	F.R.	36 11	4	White tower; 26.	Visible 065°-319°.
22416 <i>E 6616</i>	--N. entrance, W. side (Amiral Mouchez Mole).	36° 46.3' N 3' 04.0' E	F.R.	20 6	8	Metal column; 13.	Visible 145°-025°.
22420 <i>E 6617</i>	---E. side.	36° 46.3' N 3' 04.1' E	F.G.	16 5	5	Metal column; 13.	Visible 340°-196°.
22424 <i>E 6621</i>	Cap Caxine.	36° 48.7' N 2' 57.4' E	Fl.W. period 5s fl. 0.2s, ec. 4.8s	210 64	30	Yellow square tower, dark green top, dwelling; 108.	Visible 075°-300°. Radiobeacon.
22428 <i>E 6623</i>	Ain Benian (Guyotville), new pier, head.	36° 48.4' N 2' 55.3' E	F.R.	26 8	5	White metal tower, red top; 30.	
22432 <i>E 6624</i>	Sidi Ferruch.	36° 46.0' N 2' 50.9' E	Fl.(3)W. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	138 42	17	White house; 79.	Various lights in port.
22434 <i>E 6624.6</i>	-Jetee Principale, head.	36° 45.8' N 2' 51.1' E	Iso.W.G. period 4s	46 14	W. 11 G. 8	White column; 36.	W. 190°-129°, G.-190°.
22438 <i>E 6629</i>	Bou Haroun, E. jetty, head.	36° 37.4' N 2' 39.4' E	F.R.	26 8	5	White post; 19.	
22440 <i>E 6628</i>	Chera , AVIATION LIGHT.	36° 25.7' N 2' 53.1' E	Fl.(3+1)W. period 7s		50	Control tower.	Height is 5249 feet or 1600 meters.
TIPASA:							
22444 <i>E 6630</i>	-Ras el Kalia.	36° 35.9' N 2' 27.0' E	Oc.W. period 4s lt. 3s, ec. 1s	105 32	12	Yellow square tower, dark green top dwelling; 36.	Unintensified 341°-073°. Red lights on radio masts about 2 miles SE.
22448 <i>E 6631</i>	-N. end of new mole.	36° 35.7' N 2' 27.1' E	F.G.	26 8	6	White column, green top; 33.	Obscured when bearing more than 154°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ALGERIA							
22452 <i>E 6632</i>	-E. mole, NW. head.	36° 35.7' N 2° 27.2' E	F.R.	36 11	3	White post; 33.	Partially obscured by Ras el Kalia.
CHERCHELL:							
22468 <i>E 6636</i>	-Fort Joinville.	36° 36.7' N 2° 11.4' E	Fl.(2+1)W. period 15s fl. 0.1s, ec. 6.2s fl. 0.1s, ec. 6.2s fl. 0.1s, ec. 2.4s	121 37	21	Circular gray stone tower, black lantern; 85.	Unintensified 326°-037°30'.
22472 <i>E 6638</i>	-Jetee Joinville, head.	36° 36.8' N 2° 11.5' E	Iso.G. period 4s	33 10	7	White column, black lantern; 16.	
22476 <i>E 6640</i>	-Quai Nord, E. end.	36° 36.7' N 2° 11.5' E	F.G.	26 8	6	White column; 13.	
22480 <i>E 6642</i>	-Quai Est, N. end.	36° 36.7' N 2° 11.4' E	F.R.	26 8	6	White column, red lantern; 23.	
22484 <i>E 6637</i>	-Grand Hamman Shelf.	36° 36.9' N 2° 11.7' E	Q.W.	42 13	7	N. CARDINAL BY, pillar, topmark; 23.	
22486 <i>E 6644</i>	Ilot Tokikt.	36° 35.7' N 1° 50.5' E	Fl.(2)W. period 6s				
22488 <i>E 6646</i>	Cap Tenes.	36° 33.0' N 1° 20.5' E	Fl.(2)W. period 10s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 7.4s	292 89	31	White square tower, green lantern; 102.	Radiobeacon.
TENES:							
22492 <i>E 6651</i>	-Jetee, NE. head.	36° 31.7' N 1° 19.2' E	Oc.(2)R. period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	33 10	8	White tower, red lantern; 26.	Obscured 096°-193°.
22496 <i>E 6650</i>	-Jetee, NW. head.	36° 31.6' N 1° 19.1' E	Oc.(2)G. period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	33 10	7	White tower, green lantern; 23.	Obscured 116°-226°.
22500 <i>E 6648</i>	-Detached breakwater, W. head.	36° 31.7' N 1° 19.0' E	Q.W.	33 10	10	Red and white tower; 13.	
22504 <i>E 6649</i>	--E. head.	36° 31.8' N 1° 19.2' E	Iso.G. period 4s	33 10	6	White tower, green top; 13.	
22508 <i>E 6652</i>		36° 31.7' N 1° 19.6' E	Dir.F.W.G.		8	Stone hut.	W. sector 1°.
22512 <i>E 6656</i>	Pointe Colombi.	36° 26.7' N 0° 56.5' E	Fl.(3)W. period 15s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 8.8s	197 60	25	Red square tower, green cupola; 95.	
22516 <i>E 6656.5</i>	-Ile Colombi.	36° 26.3' N 0° 55.2' E	Oc.(2)G. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	95 29	5	Green and white metal tower; 10.	
22520 <i>E 6658</i>	Cap Ivi.	36° 06.9' N 0° 13.7' E	Fl.W. period 5s fl. 0.4s, ec. 4.6s	387 118	22	Yellow octagonal tower, red house; 59.	Visible 064°-244°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ALGERIA							
GOLFE D'ARZEW:							
-Mostaganem:							
22524 E 6660	--Jetee Nord, head.	35° 56.1' N 0° 04.2' E	Fl.(4)W.R. period 12s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	56 17	W. 13 R. 10	White tower, red top; 33.	W. 234°-197°, R.-234°. Radiobeacon.
22528 E 6664	--Mole de la Liberation.	35° 56.2' N 0° 04.6' E	Fl.G. period 4s	36 11	9	White hut, green top, on square base; 29.	Visible 351°-30°-261°-30'.
22532 E 6662	--Traverse SW., head.	35° 56.0' N 0° 04.4' E	Oc.(2)G. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	42 13	5	White column, green top; 23.	
22536 E 6661	--Jetee Nord, spur, head.	35° 56.2' N 0° 04.5' E	Oc.(2)G. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	42 13	5	White tower, red top; 23.	Visible 248°-073°.
22540 E 6672	--Ilot d'Arzew.	35° 52.6' N 0° 17.3' W	Fl.R. period 5s fl. 0.6s, ec. 4.4s	62 19	13	White tower; 40.	Obscured by Cap Carbon when bearing less than 132°.
22548 E 6669	--Jetee Abri, head.	35° 51.6' N 0° 17.4' W	Oc.G. period 4s lt. 3s, ec. 1s	33 10	9	White column; 26.	
22552 E 6670	--Jetee du Large, head.	35° 50.9' N 0° 17.4' W	Q.(4)W. period 6s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 2.5s	49 15	12	White tower, black top; 4.	
22556 E 6671.2	--Jetee Sud, head.	35° 51.3' N 0° 17.9' W	Iso.R. period 2s	13 4	2	Red framework tower; 9.	
22560 E 6671	--Jetee secondaire, on dolphin 30 meters E. of head.	35° 51.0' N 0° 17.8' W	Fl.R. period 4s fl. 1s, ec. 3s	20 6	2	Red tower; 7.	
-Bettioua:							
22572 E 6671.94	--W. breakwater, head.	35° 49.3' N 0° 15.4' W	Fl.G. period 2s fl. 0.5s, ec. 1.5s			White column, green top.	
22576 E 6671.9	--E. breakwater, head.	35° 49.1' N 0° 14.5' W	Fl.R. period 2s fl. 0.5s, ec. 1.5s			White column, red top.	
22577 E 6671.96	--Port de Servitude, E. breakwater.	35° 49.0' N 0° 15.7' W	Fl.(2)R. period 6s				
22578 E 6671.98	---W. breakwater.	35° 49.0' N 0° 15.8' W	Fl.(2)G. period 6s				
22580 E 6674	Cap de l'Aiguille.	35° 52.7' N 0° 29.3' W	Fl.(2)W. period 10s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 7.2s	203 62	24	White tower, black top; 33.	Obscured by E. point of cape on bearings greater than 238°. Radiobeacon.
ORAN:							
22584 E 6678	--Jetee du Large.	35° 43.2' N 0° 37.6' W	Fl.(2+1)W. period 15s	69 21	22	White metal framework tower; 49.	Visible 062°-332°. Horn: 3 bl. ev. 60s (bl. 2s, si. 3s, bl. 2s, si. 25s, bl. 2s, si. 26s).
22588 E 6679	--Epi du Large.	35° 43.1' N 0° 37.6' W	Iso.G. period 4s	27 8	7	Black column.	

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ALGERIA							
22592 <i>E 6680</i>	--Spur N. of Ravin Blanc Mole.	35° 42.9' N 0° 38.0' W	Oc.(2+1)G. period 12s lt. 4s, ec. 1s lt. 4s, ec. 1s lt. 1s, ec. 1s	28 9	6	Black column; 23.	
22596 <i>E 6682</i>	--Spur opposite Mole Millerand.	35° 42.8' N 0° 38.3' W	Oc.(3)G. period 12s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	28 9	6	Black column; 23.	Visible 213°-123°.
22600 <i>E 6679.4</i>	-Traverse du Large.	35° 43.0' N 0° 37.5' W	Iso.R. period 4s	29 9	8	Red column; 26.	
22604 <i>E 6684</i>	-Mole du Ravin Blanc, NE. corner.	35° 42.8' N 0° 37.9' W	Oc.(2)R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	29 9	7	Red column; 23.	Visible 079°-338°.
22608 <i>E 6684.2</i>	--NW. corner.	35° 42.9' N 0° 37.9' W	F.R.	29 9	7	Red column; 23.	Visible 342°30'-243°30'.
22610 <i>E 6685</i>	-Mole Oblique, NE. corner.	35° 42.8' N 0° 38.1' W	F.R.	29 9	3	Red column; 23.	
22612 <i>E 6685.2</i>	--NW. corner.	35° 42.7' N 0° 38.2' W	Iso.R. period 2s	26 8	7	White hut, gallery; 19.	
22616 <i>E 6687</i>	-Mole Millerand, NW. corner.	35° 42.7' N 0° 38.5' W	F.R.	29 9	7	Red column; 23.	Visible 359°-332°.
22620 <i>E 6694.2</i>	-Mole Jules Giraud, NW. corner.	35° 42.7' N 0° 38.9' W	F.R.	29 9	7	Red column; 23.	Visible 000°-255°.
22624 <i>E 6694</i>	--NE. corner.	35° 42.7' N 0° 38.7' W	Oc.(4)R. period 12s lt. 5s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s	29 9	7	Red column; 23.	
22628 <i>E 6695</i>	-lbn-Tofail, NE. corner.	35° 42.6' N 0° 39.1' W	Oc.W. period 4s lt. 3s, ec. 1s	10 3	10	Red column; 23.	Visible 063°-333°.
22632 <i>E 6695.2</i>	--NW. corner.	35° 42.6' N 0° 39.1' W	Oc.R. period 4s lt. 3s, ec. 1s	30 9	7	Red column; 23.	
22636 <i>E 6696</i>	-Mole du Centre, inner port, NE.	35° 42.7' N 0° 39.2' W	F.R.	29 9	7	Red column; 23.	Visible 109°-019°.
22640 <i>E 6696.2</i>	--SE. corner.	35° 42.7' N 0° 39.0' W	Iso.G. period 4s	29 9	6	Black column; 23.	Visible 200°-110°.
22644 <i>E 6700</i>	-Vieux Port, E. mole, head.	35° 42.6' N 0° 39.3' W	F.R.	19 6	7	Red column.	Visible 063°-333°.
MERS EL-KEBIR:							
22648 <i>E 6704</i>	-Entrance Range, front.	35° 43.3' N 0° 42.2' W	Oc.(2+1)R. period 12s lt. 4s, ec. 1s lt. 4s, ec. 1s lt. 1s, ec. 1s	173 53	9	Metal framework tower, black triangle in white square; 59.	Visible 244°-274°.
22652 <i>E 6704.1</i>	--Rear, 330 meters 259° from front.	35° 43.2' N 0° 42.5' W	Oc.(2+1)R. period 12s lt. 4s, ec. 1s lt. 4s, ec. 1s lt. 1s, ec. 1s	220 67	16	Pylon, square black daymark with white triangle; 23.	
22656 <i>E 6704.4</i>	-N. jetty, head.	35° 43.6' N 0° 40.8' W	V.Q.(4)W. period 2s	46 14	9	White pylon; 36.	
22660 <i>E 6704.42</i>	--Spur, head.	35° 43.6' N 0° 40.8' W	Fl.G. period 4s fl. 1s, ec. 3s	16 5		White pylon, green top; 10.	

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ALGERIA							
22664 E 6704.5	-E. jetty, head.	35° 43.5' N 0° 40.6' W	Fl.R. period 4s fl. 1s, ec. 3s	46 14		White pylon, red top; 39.	
22668 E 6706.4	-E. corner Mole Triangulaire.	35° 43.5' N 0° 42.1' W	Q.W.	46 14	13	White framework tower, red bands; 39.	Lights only visible within the harbor are shown from quays in northern part of harbor.
22672 E 6708	Cap Falcon.	35° 46.3' N 0° 47.9' W	Fl.(4)W. period 25s fl. 0.2s, ec. 2.9s fl. 0.2s, ec. 2.9s fl. 0.2s, ec. 2.9s fl. 0.2s, ec. 15.5s	341 104	30	White octagonal tower; 89.	The F.G. light is shown from the E. side and the F.R. light from the W. side of entrance at St. Andre.
22676 E 6712	Ile Plane.	35° 46.6' N 0° 54.1' W	Fl.(2)W. period 6s	79 24	9	ISOLATED DANGER BRB, tower; 20.	
22684 E 6714	Iles Habibas.	35° 43.3' N 1° 07.9' W	Fl.W. period 5s fl. 0.6s, ec. 4.4s	367 112	17	Red square tower on dwelling; 39.	
22688 E 6716	Beni Saf, outer breakwater, head.	35° 18.6' N 1° 23.2' W	Iso.G. period 4s	36 11	7	Black column on masonry base; 30.	Visible 072°-342°.
22692 E 6717	-End of E. breakwater.	35° 18.4' N 1° 23.3' W	Oc.(2)R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	30 9	8	Red column; 23.	
22696 E 6718	Ile Rachgoun.	35° 19.5' N 1° 28.7' W	Fl.(2)R. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	266 81	16	Yellow square tower on hut; 49.	
22700 E 6720	-Nemours.	35° 05.9' N 1° 52.3' W	Fl.(3)W. period 15s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 8.5s	303 92	24	Cylindrical tower on center of building; 49.	Visible 058°-248°, (obscured by Plateau de Touent S. when bearing more than 237°).
GHAZAOUET (NEMOURS):							
22704 E 6732	-Rocher Les Duex Freres.	35° 06.2' N 1° 52.2' W	Fl.(2)G. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	85 26	5	White tower; 20.	Tower not visible from offshore.
22708 E 6722	-Jette Nord, head.	35° 06.4' N 1° 52.1' W	Oc.R. period 4s lt. 3s, ec. 1s	56 17	8	Red column on tower; 49.	
22712 E 6722.2	-Head of spur, 0.4 km. ESE. of N. breakwater head.	35° 06.3' N 1° 51.8' W	F.R.	26 8	6	Red column; 19.	Visible 262°-097°.
22716 E 6726	-Mole E.	35° 06.2' N 1° 51.8' W	F.G.	26 8	5	Black column; 19.	F.G. shown from head of Mole D 076° about 357 meters.
MOROCCO							
22720 E 6757	Cap de l'Eau.	35° 08.8' N 2° 25.5' W	Fl.(2)W. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	138 42	8	White tower on octagonal building; 26.	
22721 E 6757.2	Ras Kebdana, N. breakwater.	35° 08.9' N 2° 24.9' W	Oc.(3)G. period 12s lt. 1s, ec. 3s lt. 1s, ec. 3s lt. 1s, ec. 3s	39 12	10	White tower; 23.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MOROCCO							
22722 <i>E 6757.25</i>	-E. breakwater.	35° 08.9' N 2° 25.3' W	Oc.(3)R. period 12s lt. 1s, ec. 3s lt. 1s, ec. 3s lt. 1s, ec. 3s	43 13	10	White tower; 23.	
ISLAS CHAFARINAS (S.):							
22724 <i>E 6754</i>	-Isla Isabel II, near NW. extremity of island.	35° 11.2' N 2° 25.8' W	Fl.W. period 7s	170 52	8	White tower, dwelling; 59.	Obscured by Isla Congreso 045°-080°.
22728 <i>E 6756</i>	--Mole, head.	35° 10.8' N 2° 25.6' W	Fl.(2)R. period 8s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	26 8	4	Square metal pyramidal tower; 20.	
22732 <i>E 6752</i>	-Isla del Congreso. S. extremity.	35° 10.7' N 2° 26.3' W	Fl.R. period 4s fl. 0.5s, ec. 3.5s	118 36	5	Gray cylindrical tower; 10.	Obscured when bearing less than 110°.
MELILLA (S.):							
22736 <i>E 6758</i>	-Bonete.	35° 17.7' N 2° 56.1' W	Oc.(2)W. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	131 40	14	Dark gray tower with balcony, aluminum and green lantern; 40.	
22740 <i>E 6762</i>	-NE. breakwater, head.	35° 17.3' N 2° 55.4' W	Fl.G. period 4s fl. 1s, ec. 3s	108 33	5	Gray tower with green lantern on grey dwelling; 98.	
22744 <i>E 6757.6</i>	-Puerto do Nador, de Beni Enzar, head.	35° 17.1' N 2° 55.2' W	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	26 8	10	Red cylindrical tower.	Q.R. marks corner of Pier A and Fl.R. 1.5s marks corner of Pier B close SSW.
22748 <i>E 6764</i>	-Mole No. "2".	35° 17.5' N 2° 55.8' W	Fl.(2)G. period 7s	23 7	3	Gray wooden post; 16.	
22752 <i>E 6768</i>	-Ore dock, head.	35° 17.4' N 2° 56.0' W	Fl.(2+1)R. period 21s	26 8	3	Red round tower, green band; 16.	
22754 <i>E 6765</i>	-Outer dique, head.	35° 17.3' N 2° 55.9' W	Fl.R. period 5s fl. 0.5s, ec. 4.5s	13 4	3	Red post; 7.	Fl.G. 4s 2M marks pier 120 meters SW. and Q.(3)W. 10s 3M marks opposite end of dique.
22756 <i>E 6772</i>	-Inner basin, E. jetty, head.	35° 17.5' N 2° 56.2' W	Oc.G. period 4s	20 6	3	Metal column; 16.	Traffic signals. Storm signals. Fl.(3)G. 9s 3M marks SE corner of mole.
22760 <i>E 6774</i>	--W. jetty, head.	35° 17.5' N 2° 56.1' W	Oc.R. period 4s	26 8	2	Metal post; 13.	
22768 <i>E 6776</i>	Los Farallones, on largest islet.	35° 25.7' N 2° 56.4' W	Oc.W. period 4s lt. 3s, ec. 1s	69 21	5	White and gray tower; 16.	
22772 <i>E 6778</i>	Cap des Trois Fourches.	35° 26.3' N 2° 57.8' W	Fl.(3+1)W. period 20s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 7.2s fl. 0.3s, ec. 7.2s	367 112	19	Gray tower on white two-story dwelling; 59.	Visible 083°-307°. Siren: 4 bl. (3+1) ev. 60s (bl. 2s, si. 3s, bl. 2s, si. 3s, bl. 2s, si. 23s, bl. 2s, si. 23s).
22776 <i>E 6780</i>	Anse Tramontana, Ras Baraket, N. side of entrance.	35° 24.1' N 3° 00.6' W	Oc.(2+1)W. period 12s lt. 1s, ec. 1s lt. 4s, ec. 1s lt. 4s, ec. 1s	160 49	9	White cylindrical masonry tower; 13.	
22780 <i>E 0086</i>	Isla de Alboran, summit, about 54 km. N. of cape.	35° 56.4' N 3° 02.2' W	Fl.(4)W. period 20s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 10s	131 40	10	Gray conical tower on dwelling; 66.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MOROCCO							
22784 <i>E 6784</i>	Cap Quilates (Ras Tarf), NE. side of cape, on Punta Barbazun.	35° 17.0' N 3' 40.8' W	Fl.(3)W. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	269 82	8	Yellow octagonal three-story tower; 105.	Aeromarine light.
BAIE D'AI HOCEIMA:							
22788 <i>E 6786</i>	-Morro Nuevo.	35° 15.7' N 3' 55.8' W	Fl.(2)W. period 10s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 7.4s	495 151	20	White support, black top; 52.	Visible 082°-275°.
22792 <i>E 6784.4</i>	-Al Hoceima Range No. "1", front.	35° 14.7' N 3' 55.6' W	F.R.	82 25	3	Red diamond on post on white tower; 16.	
22796 <i>E 6784.41</i>	--Rear, about 90 meters 274° from front.	35° 14.7' N 3' 55.7' W	F.R.	155 47	3	Red diamond on post on white tower; 16.	
22800 <i>E 6784.6</i>	--Range No. "2", front.	35° 15.1' N 3' 55.3' W	F.G.	90 27	3	Green diamond on post on white tower; 16.	
22804 <i>E 6784.61</i>	---Rear, 140 meters 330° from front.	35° 15.1' N 3' 55.4' W	F.G.	150 46	3	Green diamond on post on white tower; 26.	
22808 <i>E 6785.2</i>	-E. breakwater.	35° 14.9' N 3' 55.1' W	Iso.G. period 4s	46 14	4	White tower, green top; 23.	
22812 <i>E 6785</i>	-Los Islotes.	35° 14.9' N 3' 55.2' W	Iso.R. period 4s	49 15	5	White tower, red top; 23.	
22816 <i>E 6788</i>	Penon de Velez de la Gomera (S.), on islet NW. of town.	35° 10.5' N 4' 18.0' W	Fl.(3)W. period 20s fl. 0.3s, ec. 3.7s fl. 0.3s, ec. 3.7s fl. 0.3s, ec. 11.7s	154 47	12	Gray tower; 20.	
22820 <i>E 6789</i>	Jebha.	35° 13.0' N 4' 40.7' W	Fl.(2)W. period 10s	125 38	18	Black lantern on white hut; 13.	Visible 090°-270°.
22822 <i>E 6789.5</i>	Oued Laou.	35° 28.3' N 5' 06.5' W	Fl.(3)W. period 10s	499 152	12	Round white tower.	
22824 <i>E 6790</i>	Oued Martin, entrance.	35° 37.1' N 5' 16.6' W	Fl.W. period 4s fl. 1s, ec. 3s	59 18	10	White tower on fort; 43.	Visible 201°-209° and 212°-195°. G. sectors of F.W. range lights mark the channel in the river mouth; the W. sector marks the range. When depths in the river mouth decrease, the rear light will show F.Bu.
22828 <i>E 6820</i>	Tetouan, AVIATION LIGHT (Sania Ramel).	35° 35.5' N 5' 19.9' W	Fl.W. period 5s	115 35	54	Tower; 52.	Occasional.
22832 <i>E 6824</i>	Cabo Negro.	35° 41.2' N 5' 16.4' W	Oc.W. period 4s lt. 3s, ec. 1s	443 135	20	White tower; 43.	
22836 <i>E 6825</i>	Port de Mediq, E. jetty, head.	35° 41.1' N 5' 18.5' W	Q.W.	39 12	13	White tower; 13.	Visible 090°-270°. Southwestward a F.G. and F.R. light, respectively, on heads of W. jetty and spur of E. jetty. Horn: 1 bl. ev. 60s.
22838 <i>E 6830</i>	Marina Smir breakwater, head.	35° 45.1' N 5' 20.3' W	Iso.G. period 4s	36 11	4	White conical tower.	
CEUTA (S.):							
22840 <i>D 2482</i>	-Punta Almina.	35° 54.0' N 5' 16.8' W	Fl.(2)W. period 10s fl. 0.4s, ec. 2.1s fl. 0.4s, ec. 7.1s	484 148	22	White circular tower on dwelling; 52.	Siren: (201 meters ENE. on the point) 2 bl. ev. 45s.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MOROCCO							
22844 D 2486	-(Digue de Poniente), W. breakwater, head.	35° 53.8' N 5° 18.7' W	Fl.G. period 5s fl. 1s, ec. 4s	43 13	10	Green tower; 20.	Siren: 1 bl. ev. 15s (bl. 2s, si. 13s). Radiobeacon.
	-RACON.		O(---) period 72s				
22848 D 2484	-Digue de Levante), E. breakwater, head.	35° 53.8' N 5° 18.4' W	Fl.R. period 5s fl. 1s, ec. 4s	43 13	5	Red concrete tower; 23.	
22852 D 2487	-Digue de Poniente Spur, SE. corner.	35° 53.8' N 5° 18.7' W	Fl.(2)G. period 8s fl. 1s, ec. 1s fl. 1s, ec. 5s	23 7	1	Round green post, on concrete hut; 13.	
22856 D 2488	-Muelle de Espana, NW. corner.	35° 53.6' N 5° 18.9' W	Fl.(2+1)R. period 12s fl. 1s, ec. 1s fl. 1s, ec. 3s fl. 1s, ec. 5s	23 7	1	Red post, green band; 13.	
22858 D 2490.5	--Breakwater.	35° 53.5' N 5° 19.1' W	Fl.(3)G. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	20 6	1	Green post on stone hut; 13.	
22860 D 2490	-Darsena de Pescadores, extremity of breakwater.	35° 53.5' N 5° 18.8' W	Fl.(4)R. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	26 8	1	White concrete tower; 20.	
22862 D 2492	-Muelle de Ribera.	35° 53.5' N 5° 18.6' W	Oc.G. period 4s lt. 3s, ec. 1s	23 7	1	Green round mast on stone hut; 10.	Fl.(2+1)G. 21s 7m 1M shown 190 meters ENE. Fl.(3)G. 9s 7m 1M shown 400 meters ENE.
22864 D 2493	Punta Cires.	35° 54.5' N 5° 28.9' W	Oc.(3)W. period 12s lt. 1.6s, ec. 0.4s lt. 1.6s, ec. 0.4s lt. 1.6s, ec. 6.4s	144 44	18	Round tower; 26.	Visible 060°-330°.
22868 D 2496	Ksar es Shrir, mole, head.	35° 51.0' N 5° 33.6' W	Fl.(4)W. period 12s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	52 16	8	Tower; 36.	<i>Reported extinguished (1984).</i>
BAIE DE TANGER:							
22872 D 2498	-Pointe Malabato.	35° 49.0' N 5° 44.9' W	Fl.W. period 5s fl. 0.7s, ec. 4.3s	249 76	22	White square tower on dwelling; 59.	
22880 D 2500	-Le Charf (Mount Direction).	35° 46.1' N 5° 47.3' W	Oc.(3)W.R.G. period 12s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	289 88	W. 16 R. 12 G. 11	Roof of white dwelling; 23.	G. 140°-174°30', W.-200°, R.-225°, obs.-140°. F.R. light on radio mast 1.1 miles SW.
22884 D 2504	-Yacht Quay, head.	35° 47.3' N 5° 47.9' W	Iso.G. period 4s	20 6	6	White column; 13.	
22885 D 2506	-Inner harbor Entrance, N. mole, head.	35° 47.3' N 5° 48.2' W	F.G.	13 4	6		
22886 D 2507	--S. mole, head.	35° 47.2' N 5° 48.2' W	F.R.	13 4	6		
22888 D 2502	-Outer breakwater, head.	35° 47.5' N 5° 47.6' W	Fl.(3)W. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	69 21	14	White tower; 52.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MOROCCO							
22892 D 2503	-South Mole (Quay 2), head.	35° 47.3' N 5° 47.8' W	Oc.(2)R. period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	23 7	6	White column; 20.	
22896 D 2510	Cap Spartel.	35° 47.5' N 5° 55.3' W	Fl.(4)W. period 20s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 12.3s	312 95	30	Yellow square tower; 79.	Aeromarine light. Diaphone: (375 meters 225°) 4 bl. ev. 90s. Radiobeacon.
22900 D 2512	Tanger Boukhalf AVIATION LIGHT.	35° 43.5' N 5° 54.7' W	Fl.W. period 12s	85 26	25	Control tower; 39.	Visible 067°-115°. A Mo.(TG)G. light may also be shown. Occasional.
ASILAH (ARZILA):							
22904 D 2514	-Entrance Range, 768 meters 041° from square tower, front.	35° 28.0' N 6° 02.0' W	F.R.	26 8		Iron tower.	Signal station.
22908 D 2514.1	--Rear, 140° from front.	35° 28.0' N 6° 01.9' W	F.R.	33 10		Iron tower.	
LARACHE:							
22912 D 2532	-Punta Nadar.	35° 11.7' N 6° 10.0' W	Fl.(2)W. period 15s fl. 0.3s, ec. 3.4s fl. 0.3s, ec. 11s	262 80	26	White octagonal tower on building; 144.	Traffic signals. Signal station.
22916 D 2522	-Jetty, W. head, N. side of entrance.	35° 12.4' N 6° 09.4' W	Oc.(4)W. period 15s lt. 2s, ec. 5.5s lt. 2s, ec. 0.5s lt. 2s, ec. 0.5s lt. 2s, ec. 0.5s	52 16	17		F.G. 810 meters 012° marks N. end of mole under construction in inner harbor. Horn: 4 bl. ev. 60s.
22920 D 2524	-Outer Bar Range, front.	35° 11.8' N 6° 08.3' W	Iso.W. period 2s	33 10	4	Red post, white triangular daymark, point up; 29.	Obscured 212°-352°.
22924 D 2524.1	--Rear, 200 meters 102° from front.	35° 12.1' N 6° 08.1' W	Iso.W. period 2s	49 15	4	White post, white triangular daymark, point down; 42.	Obscured 212°-352°.
22928 D 2526	-Inner Bar Range, front.	35° 11.7' N 6° 08.9' W	F.R.	66 20	2	White mast; 39.	Obscured 275°-015°30'.
22932 D 2526.1	--Rear, on church 70 meters 145°30' from front.	35° 12.1' N 6° 09.0' W	F.R.	95 29	2	Church tower; 62.	Obscured 235°30'-055°30'.
22934 D 2528	-Training wall, head.	35° 12.0' N 6° 08.8' W	F.G.				
22938 D 2537	-Sidi al Hachmi al Bahraoui.	34° 39.4' N 6° 24.8' W	Fl.(2)W. period 10s	223 68	12		
MEHDIYA:							
22940 D 2540	-Mehdia, S. side of Oued Sebu Range, front.	34° 15.8' N 6° 40.2' W	Dir.F.G.	49 15	12	Black tower, green triangular daymark, white stripes; 33.	Intensified 100°-105°.
22944 D 2540.1	--Rear, about 800 meters 102°30' from front.	34° 15.5' N 6° 39.6' W	Oc.(3)W. period 12s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	243 74	16	White hut, red octagonal tower; 29.	Signal station.
22948 D 2542	-N. jetty, head.	34° 16.2' N 6° 41.1' W	Oc.(2)R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	56 17	5	Red and white tower; 29.	Oc.(2)R. 155 meters ESE.
22952 D 2543	-S. jetty, head.	34° 16.0' N 6° 41.3' W	Iso.G. period 4s	52 16	6	White tower; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MOROCCO							
22956 <i>D 2543.2</i>	-Oued Sebou, S. jetty, root.	34° 15.8' N 6° 40.7' W	F.W.				
22960 <i>D 2544</i>	-Range No. "2", front.	34° 16.2' N 6° 39.9' W	F.R.	8 2	7	Tide gauge.	Intensified 2°30' each side of range line.
22964 <i>D 2544.1</i>	--Rear, about 213 meters 060° from front.	34° 16.1' N 6° 39.7' W	F.R.	15 5	8	Black and white beacon.	Intensified 2°30' each side of range line.
22968 <i>D 2544.5</i>	-Range No. "3", front.	34° 16.6' N 6° 38.6' W	F.G.	16 5	7	White beacon.	Intensified 2°30' each side of range line.
22972 <i>D 2544.6</i>	--Rear, about 320 meters 069° from front.	34° 16.4' N 6° 38.4' W	F.G.	109 33	16	White beacon.	Intensified 2°30' each side of range line.
22976 <i>D 2545</i>	-Range No. "4", front (downstream).	34° 16.4' N 6° 38.9' W	F.G.	15 5	7	Black and white beacon.	Intensified 2°30' each side of range line.
22980 <i>D 2545.1</i>	--Rear, about 274 meters 216° from front.	34° 16.2' N 6° 39.1' W	F.G.	135 41	16	White beacon.	Intensified 2°30' on each side range line.
22984 <i>D 2545.3</i>	-Range No. "4", front (upstream).	34° 18.7' N 6° 36.9' W	F.R.	39 12		Red and white beacon.	Intensified 2°30' each side of range line. Oc.(2)R. shown on pier about 2.4 km. 221°.
22988 <i>D 2545.4</i>	--Rear, about 350 meters 036° from front.	34° 18.7' N 6° 36.2' W	F.R.	88 27		Red and white beacon.	Intensified 2°30' each side of range line.
22992 <i>D 2541</i>	-Kenitra AVIATION LIGHT.	34° 17.6' N 6° 36.2' W	Al.Fl.(2+1)W.G. period 10s fl. 1s, ec. 3.5s	180 55	15	Yellow tower, white top.	A F.R. light is shown from a radio tower, about 15.6 km. 194°. Occasional.
22996 <i>D 2546</i>	-Range No. "5", front.	34° 18.9' N 6° 36.1' W	Oc.(2)W. period 9s	10 3		White beacon.	
23000 <i>D 2546.1</i>	--Rear, about 162 meters 071° from front.	34° 18.8' N 6° 35.9' W	F.R.	65 20		Red and white beacon.	
23004 <i>D 2546.6</i>	-Beacon.	34° 18.9' N 6° 35.8' W	F.R.				
23008 <i>D 2546.3</i>	-Range No. "6", front.	34° 18.9' N 6° 35.2' W	F.R.				
23012 <i>D 2546.4</i>	--Rear, about 268 meters 087° from front.	34° 18.7' N 6° 34.9' W	F.R.	23 7		White beacon.	Oc.(2)R. 9s 128 meters SSE.
23016 <i>D 2547</i>	-Range No. "7", front (downstream).	34° 18.6' N 6° 34.7' W	F.R.	3 1			Oc.(2)R. 9s about 2 km. SSW.
23020 <i>D 2547.1</i>	--Rear, about 366 meters 018° from front.	34° 18.6' N 6° 34.5' W	F.R.	10 3		White beacon.	
23024 <i>D 2547.4</i>	-Range No. "7", front (upstream).	34° 16.5' N 6° 35.6' W	F.G.				
23028 <i>D 2547.5</i>	--Rear, about 244 meters 198° from front.	34° 16.2' N 6° 35.5' W	F.G.	39 12		Black and white beacon.	
23032 <i>D 2548.4</i>	-Beacon.	34° 16.0' N 6° 35.0' W	Oc.G. period 4.9s				
23036 <i>D 2554</i>	Rabat.	34° 02.1' N 6° 50.8' W	Oc.(2)W. period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	102 31	16	Yellow tower, black lantern; 79.	F.R. on radio mast 12 miles NE. Unintensified 290°-020°.
23048 <i>D 2557</i>	-Rabat Sale, AVIATION LIGHT.	34° 03.0' N 6° 46.0' W	Fl.W. period 10s fl. 1s, ec. 9s			Control tower.	Occasional.
23052 <i>D 2558</i>	Cap de Fedala.	33° 43.1' N 7° 24.0' W	Fl.(2+1)W. period 18s fl. 0.4s, ec. 2.6s fl. 0.4s, ec. 7.1s fl. 0.4s, ec. 7.1s	95 29	21	Yellow octagonal tower, green top; 89.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MOROCCO							
MOHAMMEDIA:							
23054 <i>D 2558.4</i>	-Breakwater, head.	33° 44.1' N 7° 23.2' W	Fl.(2)W. period 10s	69 21	10	Green pylon.	
23056 <i>D 2559</i>	-Ben Chergui, first Range, front.	33° 43.8' N 7° 20.7' W	Oc.(2)W.G. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	33 10	W. 14 G. 11	Black and white checkered support; 10.	W. 040°-076°, G.-126°, W.-220°.
23060 <i>D 2559.1</i>	--Rear, about 255 meters 130° from front.	33° 43.5' N 7° 20.5' W	Oc.(2)W. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	79 24	18	White rectangular hut, dwelling; 26.	Intensified 119°30'-140°30'. Synchronized with front.
23064 <i>D 2560</i>	-Directional light 205°.	33° 42.0' N 7° 23.0' W	Dir.Q.W.R.G.	118 36	W. 12 R. 9 G. 9	Red and white striped hut, near water tower; 16.	G. 183°-203°, W.-207°, R.-211°. Ships stay in W. sector entering or leaving port.
23068 <i>D 2563</i>	-N. end of S. jetty.	33° 43.0' N 7° 23.7' W	Oc.(2)R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	26 8	6	Red and white striped tower, red tank; 15.	
23072 <i>D 2562</i>	-N. jetty, head.	33° 43.1' N 7° 23.6' W	Iso.W.G. period 4s	26 8	W. 9 G. 5	Green and white striped tower, green tank; 16.	W. 240°-191°, G.-240°.
23076 <i>D 2561</i>	-Entrance Range, front.	33° 43.0' N 7° 24.1' W	Dir.Oc.(3)W. period 12s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	36 11	18	Black and white banded rectangular column; 33.	Intensified 2°30' each side of range line.
23080 <i>D 2561.1</i>	--Rear, about 110 meters 265° from front.	33° 43.0' N 7° 24.1' W	Dir.Oc.(3)W. period 12s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	46 14	18	Black and white striped rectangular column; 42.	Intensified 2°30' each side of range line. Synchronized with front.
CASABLANCA:							
23084	-Approach Buoy "CA1".	33° 39.5' N 7° 34.6' W	Iso.W. period 4s			SAFE WATER RW, spherical.	Radar reflector.
23096 <i>D 2566</i>	-Pointe d'Oukacha.	33° 37.1' N 7° 33.9' W	V.Q.(2)W. period 2s	95 29	18	Red hut on white square tower; 66.	Visible 110°-255°. Radiobeacon.
	--Auxiliary light.		F.R.	79 24	12	Same tower; 46.	Visible 055°-110°.
23100 <i>D 2567</i>	-Roches-Noires.	33° 37.0' N 7° 35.0' W	Oc.W.R. period 4s lt. 3s, ec. 1s	69 21	W. 16 R. 12	Red hut on white tower; 62.	W. shore-090°, R.-162°, W.-shore. Difficult to identify.
23104 <i>D 2570</i>	-Jetee Delure (Moulay Youssef), NE. spur.	33° 37.0' N 7° 35.7' W	Oc.(2)G. period 6s	16 5	5	White hut, green bands; 10.	Visible 230°-070°.
23108 <i>D 2569</i>	-SW. jetty.	33° 36.8' N 7° 35.5' W	Oc.(2)R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	41 12	7	White hut, red column; 13.	Synchronized with Jetee Transversale Light.
23112 <i>D 2570.2</i>	--S. spur.	33° 37.0' N 7° 36.0' W	Oc.G. period 2s lt. 1.5s, ec. 0.5s	20 6	5	White hut, green column; 13.	Visible 238°-070°. Horn: 2 bl. ev. 60s. Signal station.
23114 <i>D 2569.2</i>	-Container Terminal, NE. corner.	33° 36.8' N 7° 35.6' W	Fl.(3)R. period 12s				
23116 <i>D 2572</i>	-Jetee Transversale, outer end.	33° 36.6' N 7° 36.3' W	Oc.R. period 4s lt. 3.5s, ec. 0.5s	23 7	6	White hut, red column; 13.	Visible 026°-257°. Synchronized with SW. jetty light.
23120 <i>D 2572.2</i>	-Phosphate Pier, NW. corner.	33° 36.6' N 7° 36.3' W	F.R.	10 3			Visible 007°-207°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MOROCCO							
23124 <i>D 2568</i>	-Entrance Range, N. tower of phosphate pier, front.	33° 37.0' N 7° 36.0' W	Dir.Oc.W. period 4s lt. 3s, ec. 1s	98 30	18	Red and white banded tower; 89.	Intensified 002°30' each side of range line.
23128 <i>D 2568.1</i>	--Rear, about 770 meters 228° from front.	33° 36.2' N 7° 36.6' W	Oc.(4)W.R. period 12s lt. 5s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s	157 48	W. 16 R. 12	Grain elevator; 148.	Obscured by new dock silo 138°-153°. W. shore-245°, R.-285°.
23132 <i>D 2574</i>	El Hank.	33° 36.7' N 7° 39.4' W	Fl.(3)W. period 15s fl. 0.1s, ec. 2.9s fl. 0.1s, ec. 2.9s fl. 0.1s, ec. 8.9s	213 65	30	Round masonry tower; 161.	Siren: 3 bl. ev. 120s (bl. 3s, si. 27s, bl. 3s, si. 27s, bl. 3s, si. 57s). Radiobeacon.
23136 <i>D 2576</i>	Anfa (Cazes) AVIATION LIGHT.	33° 34.0' N 7° 40.0' W	U.Q.(2)W. period 11s fl. 0.1s, ec. 0.1s fl. 0.1s, ec. 10.7s	262 80	17	Iron framework; 98.	Occasional.
23140 <i>D 2582</i>	Pointe d'Azemmour.	33° 21.0' N 8° 18.0' W	Fl.(2)W.R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	148 45	W. 15 R. 11	White tower; 46.	W. 075°-100°, R.-245°.
EL JADIDA (MAZAGAN):							
23144 <i>D 2588</i>	-Sidi Bou Afi.	33° 15.0' N 8° 31.0' W	Fl.W. period 5s fl. 0.2s, ec. 4.8s	213 65	30	White tower, black top; 151.	
23148 <i>D 2584</i>	-Sidi Mesbah, about 6.5 km. E. of town.	33° 15.0' N 8° 26.0' W	Oc.(2)W.R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	164 50	W. 14 R. 11	White square tower, green top; 59.	R. shore-151°, W.-188°.
23152 <i>D 2586</i>	-N. jetty, head.	33° 16.0' N 8° 30.0' W	Iso.W.G. period 4s	23 7	W. 13 G. 9	White support, green band; 13.	G. 120°-235°, W.-120°.
23156 <i>D 2587</i>	-S. jetty, head.	33° 15.4' N 8° 29.9' W	F.R.	33 10	7	White column, red band.	
23160 <i>D 2590</i>	El Jorf Lasfar.	33° 10.0' N 8° 38.0' W	Oc.W.R. period 6s lt. 4.5s, ec. 1.5s	102 31	W. 9 R. 6	White square tower and wall, black top; 52.	W. 018°-190°, R.-018°.
23164 <i>D 2591</i>	-W. jetty, head.	33° 07.5' N 8° 38.7' W	Fl.(2)R. period 10s	59 18	8	Round concrete tower; 33.	
23168 <i>D 2591.2</i>	-Breakwater, extremity.	33° 07.6' N 8° 38.5' W	F.R.	49 15	8	Round concrete tower; 33.	
23172 <i>D 2591.4</i>	-E. jetty, head.	33° 08.0' N 8° 38.0' W	Fl.G. period 4s fl. 1s, ec. 3s	46 14	8		
23176 <i>D 2592</i>	Beddouza.	32° 32.6' N 9° 17.0' W	Fl.(2)W. period 10s fl. 0.4s, ec. 1.6s fl. 0.4s, ec. 7.6s	213 65	22	Turret on fort flanked by 4 towers, 2 with green and yellow bands; 62.	
SAFI:							
23180 <i>D 2595</i>	-Pointe de la Tour , about 2.4 km. 293° from Sidi Bou Zid Mosque.	32° 20.0' N 9° 17.0' W	Oc.(4)W. period 12s lt. 5s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s	295 90	18	Yellow square tower; 39.	F.R. lights on radio mast 0.9 km. 016°. Visible 302°-164°.
23184 <i>D 2595.4</i>	-Directional light 0.4 km. ENE. from jettee Transversale, Nord.	32° 19.0' N 9° 15.1' W	Fl.(2)W.R.G. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	36 11	W. 14 R. 13 G. 13	Black and white banded tower; 26.	G. 085°-097°, W.-103°, R.-113°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MOROCCO							
23188 <i>D 2599</i>	-Inner entrance Range, front, grain pier.	32° 19.0' N 9° 15.0' W	Q.W.	36 11	12	White column, red bands; 29.	Visible 060°-240°.
23192 <i>D 2599.1</i>	--Rear, about 150 meters 150° from front.	32° 18.3' N 9° 14.8' W	Q.W.	46 14	12	White tower, red bands; 36.	Visible 060°-240°. Synchronized with front.
23196 <i>D 2596</i>	-Grande Jetee, head.	32° 19.0' N 9° 15.0' W	Iso.G. period 4s	39 12	8	White pylon, green top; 26.	Radar reflector.
23200 <i>D 2596.2</i>	--Elbow.	32° 18.7' N 9° 15.2' W	F.G.	19 6	3	White and green tank; 16.	Visible 133°-335°.
23201 <i>D 2596.6</i>	--Spur, W. side of entrance.	32° 18.5' N 9° 15.1' W	F.G.	33 10	6		
23204 <i>D 2598</i>	-Jetee Transversale, N.	32° 18.8' N 9° 15.1' W	Oc.R. period 4s lt. 3s, ec. 1s	23 7	6	Gray hut, red top; 13.	
23208 <i>D 2600</i>	-Muelle de Fosfatos, head.	32° 18.6' N 9° 15.0' W	F.R.	26 8	7	White concrete hut, red lantern; 16.	Visible 323°-143°.
23212 <i>D 2600.2</i>	--Root.	32° 18.6' N 9° 14.7' W	Oc.(2)W. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	92 28	12	Yellow square tower; 89.	Visible 012°-145°. Two F.R. lights are shown from chimney about 3.52 km. SSE.
ESSAOUIRA:							
23216 <i>D 2602</i>	-Sidi Magdul.	31° 29.6' N 9° 46.0' W	Oc.W.R.G. period 4s	62 19	W. 14 R. 11 G. 9	White square tower; 49.	G. 034°-124°, W.-136°, R.-214°, W.-260°, W. (unint.)-350°, W.-034°.
23220 <i>D 2602.1</i>	-Jetee, SW. head.	31° 30.5' N 9° 46.6' W	Q.W.	26 8	12	White column, black band; 29.	Visible 208°-108°. Nautophone: 1 bl. ev. 60s.
23224 <i>D 2602.2</i>	-Lighter basin, W. side of entrance (Jetee SW.).	31° 30.6' N 9° 46.6' W	Oc.(2)R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	10 3	6	White dwelling, red hut; 6.	Visible 187°-360°.
23228 <i>D 2602.4</i>	--E. side of entrance (Jetee E.).	31° 30.6' N 9° 46.5' W	Fl.G. period 4s fl. 1s, ec. 3s	10 3	5	White square dwelling, black hut; 6.	
23232 <i>D 2604</i>	Cap Sim.	31° 24.0' N 9° 50.0' W	Fl.(3)W. period 15s fl. 0.6s, ec. 2.4s fl. 0.6s, ec. 2.4s fl. 0.6s, ec. 8.4s	338 103	21	White and green banded tower of fort; 65.	Reserve light Fl.(3)W. 12s.
23236 <i>D 2608</i>	Cap Rhir.	30° 38.0' N 9° 53.0' W	Fl.W. period 5s fl. 0.4s, ec. 4.6s	279 85	22	White tower; 135.	
AGADIR:							
23244 <i>D 2611</i>	-W. jetty, head.	30° 25.0' N 9° 38.0' W	Oc.(2)R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	26 8	8	White and red square tower; 23.	Horn: 2 bl. ev. 30s (bl. 2s, si. 3s, bl. 2s, si. 23s).
23248 <i>D 2612</i>	-SE. breakwater, head.	30° 25.1' N 9° 37.8' W	Fl.(2)G. period 6s	16 5	4	White structure, green band; 16.	
23253 <i>D 2613</i>	-Port Anza, W. breakwater, head.	30° 25.2' N 9° 38.6' W	Fl.R. period 4s		5	White tower, red band; 28.	
23254 <i>D 2613.2</i>	--E. breakwater, head.	30° 25.5' N 9° 38.5' W	Fl.G. period 4s		5	White tower, green band; 28.	
23255 <i>D 2614</i>	Inezgane AVIATION LIGHT.	30° 22.8' N 9° 33.4' W	Fl.W. period 3s	118 36	17		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MOROCCO							
IFNI:							
23256 <i>D 2616</i>	-Sidi Ifni.	29° 23.0' N 10° 11.0' W	Fl.(1+3)W. period 30s fl. 0.3s, ec. 11s fl. 0.3s, ec. 3.4s fl. 0.3s, ec. 3.4s fl. 0.3s, ec. 11s	187 57	25	Square brown tower on building; 43.	
23257 <i>D 2616.2</i>	--Overhead transporter, head.	29° 21.9' N 10° 12.1' W	Fl.W. period 4s fl. 1s, ec. 3s	33 10	5		
23258 <i>D 2616.4</i>	--Jetty, head.	29° 21.5' N 10° 12.1' W	Iso.R. period 4s	36 11	5		Fl.R. 3s marks inner jetty head.
23260 <i>D 2616.6</i>	Cap Draa.	28° 40.7' N 11° 07.4' W	Fl.(2)W. period 10s	279 85	25	White metal pylon, black bands; 98.	Reserve light Range16M.
23264 <i>D 2617</i>	Cabo Nachtigal (Tan Tan).	28° 30.0' N 11° 21.0' W	Fl.W. period 5s	118 36	15	Red tower, white band; 23.	Visible 305°-215°.
23270 <i>D 2619</i>	Tarfaya.	27° 55.3' N 12° 56.3' W	Fl.(2)W. period 10s		17	Masonry tower; 42.	3 F.R. (vert.) on radio mast 1.6 miles NNE.
23272	-Tarfaya, channel, port side.	27° 57.0' N 12° 55.0' W	Fl.R. period 2s		2		
23276	--Starboard side.	0° 00.0' 0° 00.0'	I.Q.G.		2		

Section 16

Islands of the Eastern North Atlantic

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ACORES (AZORES) (P.)							
ILHA DO CORVO:							
23280 <i>D 2712</i>	-Ponta Negra, S. point of island.	39° 40.0' N 31° 06.7' W	Fl.W. period 5s fl. 1s, ec. 4s	72 22	6	White hexagonal concrete tower; 13.	Visible 236°-256° and 261°-119°.
23284 <i>D 2714</i>	-Canto de Carneira, NE. point.	39° 42.8' N 31° 05.3' W	Fl.W. period 6s fl. 0.5s, ec. 5.5s	781 238	9	Gray round tower; 26.	
ILHA DAS FLORES:							
23288 <i>D 2704</i>	-Ponta das Lajes.	39° 22.4' N 31° 10.1' W	Fl.(3)W. period 28s fl. 0.3s, ec. 4s fl. 0.3s, ec. 4s fl. 0.3s, ec. 19.1s	325 99	26	Square masonry building; 52.	Visible 263°-054°.
23289 <i>D 2705</i>	--Porto das Lajes.	39° 22.7' N 31° 09.7' W	Oc.R. period 7s lt. 4s, ec. 3s	33 10		White mast.	
23292 <i>D 2706</i>	-Faja Grande, W. side of island.	39° 27.5' N 31° 15.5' W	Fl.W. period 5s fl. 1s, ec. 4s	43 13	4	Red hut on piles; 20.	F.R. lights are shown at the tops of radio masts at Lajes.
23296 <i>D 2703</i>	-Porto das Pocas Range, front.	39° 27.0' N 31° 07.4' W	Fl.R. period 3s fl. 1s, ec. 2s	24 7	2	Wooden mast; 16.	
23300 <i>D 2703.1</i>	--Rear, 290° from front.	39° 27.0' N 31° 07.4' W	Fl.R. period 3s fl. 1s, ec. 2s	56 17	3	Wooden mast; 16.	
23304 <i>D 2702</i>	-Ponta Santa Cruz, E. side of island.	39° 27.2' N 31° 07.2' W	Fl.R. period 5s	46 14	4	Pillar, red and white bands; 20.	Visible 156°-308°.
23308 <i>D 2702.4</i>	-Porto Velho Range, front.	39° 27.2' N 31° 07.3' W	L.Fl.G. period 5s fl. 2s, ec. 3s	43 13	4	Metal structure on wall.	
23312 <i>D 2702.41</i>	--Rear, 261°12' from front.	39° 27.2' N 31° 07.3' W	L.Fl.G. period 5s fl. 2s, ec. 3s	49 15	4	Metal structure on a house.	
23316 <i>D 2708</i>	-Ponta do Albarnaz.	39° 31.0' N 31° 13.6' W	Fl.W. period 5s fl. 0.2s, ec. 4.8s	341 104	22	White round masonry tower, dwelling; 49.	Visible 035°-258°.
ILHA DO FAIAL:							
23320 <i>D 2694</i>	-Horta, breakwater, head.	38° 32.0' N 28° 37.3' W	Fl.R. period 3s fl. 1s, ec. 2s	69 21	11	White concrete structure; 49.	
23324 <i>D 2696</i>	--Sea wall, Boa Viagem.	38° 32.2' N 28° 37.6' W	Iso.G. period 1.5s	43 13	9	Prismatic column, red stripe; 23.	
23328 <i>D 2697</i>	-Harbor Range, front, E. of Customhouse.	38° 31.7' N 28° 37.6' W	Iso.G. period 2s	23 7	2	Red mast; 16.	
23332 <i>D 2697.1</i>	--Rear, 196° from front.	38° 31.7' N 28° 37.6' W	Iso.G. period 2s	33 10	2	White mast, red stripe; 16.	
23336 <i>D 2698</i>	-Feteira Range, front.	38° 31.0' N 28° 41.0' W	Oc.G. period 6s lt. 4s, ec. 2s	26 8	5	Iron post; 13.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ACORES (AZORES) (P.)							
23340 <i>D 2698.1</i>	--Rear.	38° 31.0' N 28° 41.0' W	Oc.G. period 6s lt. 4s, ec. 2s	30 9	5	Iron post; 13.	
23344 <i>D 2692</i>	-Ponta da Ribeirinha.	38° 35.7' N 28° 36.2' W	Fl.(3)W. period 20s fl. 0.5s, ec. 3s fl. 0.5s, ec. 3s fl. 0.5s, ec. 12.5s	433 132	12	Metal post; 16.	
23348 <i>D 2699</i>	-Vale Formoso, SW. side of island.	38° 34.9' N 28° 48.7' W	L.Fl.(2)W. period 10s fl. 2s, ec. 2s fl. 2s, ec. 4s	374 114	13	White truncated conical tower; 46.	
ILHA DO PICO:							
23360 <i>D 2687.2</i>	-Madalena, N. mole.	38° 32.2' N 28° 32.0' W	Oc.R. period 3s lt. 2s, ec. 1s	39 12	10	Red tower, white bands; 26.	
23364 <i>D 2687.5</i>	--Approach Range, front.	38° 32.0' N 28° 31.9' W	Fl.G. period 6s fl. 1.5s, ec. 4.5s	52 16	5	White post, red stripes.	
23368 <i>D 2687.51</i>	--Rear, 150 meters 139° from front.	38° 31.9' N 28° 31.8' W	Fl.G. period 6s	68 21	5	White post, red stripes.	
23372 <i>D 2684</i>	-Areia Larga Anchorage Range, front.	38° 31.6' N 28° 32.2' W	Iso.R. period 4s	36 11	7	White column; 13.	Extinguished in bad weather.
23376 <i>D 2684.1</i>	--Rear, 20 meters 082° from front.	38° 31.6' N 28° 32.1' W	Iso.R. period 4s	43 13	6	Red lantern on roof of house; 13.	Extinguished in bad weather.
23377 <i>D 2691.4</i>	Calhau Range, front.	38° 29.2' N 28° 32.4' W	Oc.R. period 3s lt. 2s, ec. 1s	32 10	6	Illuminated post.	
23377.1 <i>D 2691.41</i>	-Rear, 122° from front.	38° 29.2' N 28° 32.3' W	Oc.R. period 3s lt. 2s, ec. 1s	39 12	6	Column on house.	
23380 <i>D 2691</i>	-Ponta do Sao Mateus.	38° 25.4' N 28° 27.0' W	Fl.W. period 5s	108 33	13	White truncated tower; 43.	Visible 284°-118°.
23392 <i>D 2690.6</i>	-Lajes Range, front.	38° 23.9' N 28° 15.2' W	Oc.R. period 6s lt. 5s, ec. 1s	59 18	7	White wall, yellow band.	
23396 <i>D 2690.7</i>	--Rear, 085° from front.	38° 23.9' N 28° 15.2' W	Oc.R. period 6s lt. 5s, ec. 1s	79 24	7	White daymark, yellow stripe, on metal base.	
23400 <i>D 2690.15</i>	-Santa Cruz das Ribeiras, pier, head.	38° 24.4' N 28° 11.3' W	Fl.R. period 3s fl. 1s, ec. 2s	46 14	14	White tower, red bands; 28.	
23404 <i>D 2690</i>	-Ponta da Ilha.	38° 24.8' N 28° 01.9' W	Fl.(3)W. period 15s fl. 0.3s, ec. 6s fl. 0.3s, ec. 2s fl. 0.3s, ec. 6.1s	95 29	24	White square tower, red lantern and dwelling; 62.	Visible 166°-070°.
23408 <i>D 2688</i>	-Cais do Pico, N. side of island.	38° 31.7' N 28° 19.3' W	Oc.R. period 6s lt. 4s, ec. 2s	10 3	6	Concrete structure; 16.	Indicates anchorage when bearing 222°.
23410 <i>D 2688.2</i>	--On mole.	38° 31.9' N 28° 19.2' W	Fl.G. period 3s fl. 1s, ec. 2s	23 7	2	Truncated conical tower, white and green bands; 13.	Visible 120°-030°.
23420 <i>D 2690.02</i>	-Manhenha Range, front.	38° 24.6' N 28° 02.2' W	Fl.R. period 5s fl. 1s, ec. 4s	42 13	6	Iron post; 6.	
23424 <i>D 2690.03</i>	--Rear, 19 meters from front.	38° 24.6' N 28° 02.2' W	Fl.R. period 5s fl. 1s, ec. 4s	66 20	6	On east corner of building; 13.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ACORES (AZORES) (P.)							
23428 <i>D 2689</i>	-Prainha.	38° 28.5' N 28° 12.1' W	Fl.R. period 4s fl. 1s, ec. 3s	46 14	7	Red column, white bands; 10.	Visible 128°-287°.
23432 <i>D 2689.4</i>	-Santo Amaro Range, front.	38° 27.4' N 28° 10.1' W	Oc.R. period 6s lt. 4s, ec. 2s	23 7	7	Red post, white bands; 20.	
23436 <i>D 2689.41</i>	--Rear.	38° 27.4' N 28° 10.1' W	Oc.R. period 6s lt. 4s, ec. 2s	30 9	7	Red post, white bands; 20.	
23440 <i>D 2690.1</i>	-Calheta de Nesquim, front.	38° 24.2' N 28° 04.7' W	Fl.R. period 5s fl. 1.5s, ec. 3.5s	42 13	7	White column, red lantern; 3.	
23444 <i>D 2690.11</i>	--Rear, 30 meters from front.	38° 24.2' N 28° 04.7' W	Fl.R. period 5s fl. 1.5s, ec. 3.5s	59 18	7	Red metal column; 20.	
ILHA DE SAO JORGE:							
23448 <i>D 2683</i>	-Ponta Rosais.	38° 45.2' N 28° 18.8' W	Fl.(2)W. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	857 261	8	Round tower on building.	
23452 <i>D 2682</i>	-Porto das Velas, in harbor.	38° 40.9' N 28° 12.2' W	Oc.G. period 3s lt. 2s, ec. 1s	85 26	7	Red lantern on post, yellow and black stripes; 23.	Inside anchorage when light bears 348°.
23456 <i>D 2682.2</i>	--Cais das Velas.	38° 40.7' N 28° 12.3' W	Fl.R. period 5s fl. 0.5s, ec. 4.5s	52 16	7	Truncated tower, red and white stripes.	
23460 <i>D 2682.4</i>	--Central anchorage Range, front.	38° 40.7' N 28° 12.5' W	Iso.R. period 5s	43 13	6	Column, red and white stripes.	
23464 <i>D 2682.5</i>	---Rear, Ermida do Livramento, W. of the port, 300° from front.	38° 40.9' N 28° 13.0' W	Oc.R. period 6s lt. 5s, ec. 1s	164 50	7	Small chapel; 26.	With Porto das Velas Light bearing 348° indicates anchorage.
23466 <i>D 2681.8</i>	-Quimada.	38° 40.1' N 28° 11.6' W	Fl.W. period 5s fl. 1.5s, ec. 3.5s	164 50	10	Round column, white and red stripes; 20.	
23468 <i>D 2681.5</i>	-Urzelina.	38° 38.6' N 28° 07.7' W	Fl.R. period 6s fl. 1.5s, ec. 4.5s	33 10	6	2 posts on white wall; 13.	
23472 <i>D 2680.2</i>	-Ponta da Forcada.	38° 35.7' N 28° 58.9' W	Fl.W. period 3s fl. 1s, ec. 2s	236 72	6	Tower, red and white bands; 15.	
23476 <i>D 2681</i>	-Calheta, wharf.	38° 36.1' N 28° 00.6' W	Oc.R. period 3s lt. 2s, ec. 1s	59 18	7	White concrete structure; 10.	
23477 <i>D 2681.2</i>	--Mole.	38° 36.0' N 28° 00.4' W	Fl.R. period 3s fl. 1s, ec. 2s	33 10	10	Truncated tower, red and white bands; 20.	
23480 <i>D 2680</i>	-Ponta do Topo.	38° 33.0' N 27° 45.3' W	Fl.(3)W. period 19.5s fl. 0.5s, ec. 3s fl. 0.5s, ec. 3s fl. 0.5s, ec. 12s	190 58	20	White cylindrical concrete tower, dwelling attached; 52.	Visible 133°-033°.
23482 <i>D 2683.5</i>	-Norte Grande.	38° 40.8' N 28° 03.1' W	Fl.W. period 6s fl. 1s, ec. 5s		12	Round tower, red and white stripes; 20.	
23484 <i>D 2670</i>	-Ponta do Carapacho.	39° 00.8' N 27° 57.4' W	Fl.(2)W. period 10s fl. 1s, ec. 1s fl. 1s, ec. 7s	627 191	15	Cylindrical concrete tower next to a dwelling, painted white; 46.	Visible 165°-098°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ACORES (AZORES) (P.)							
ILHA GRACIOSA:							
23488 <i>D 2674</i>	-Fort do Santo, island, N. side.	39° 05.3' N 28° 00.5' W	Fl.R. period 4s fl. 1s, ec. 3s	46 14	6	Red tower; 20.	Aero Radiobeacon 0.6 mile SSW.
23496 <i>D 2677</i>	-Folga, on headland.	39° 01.5' N 27° 58.1' W	L.Fl.W. period 5s fl. 2s, ec. 3s	102 31	4	Support on a white building; 16.	
23500 <i>D 2676</i>	-Ponta da Barca.	39° 05.6' N 28° 03.0' W	Fl.W. period 7s fl. 0.4s, ec. 6.6s	233 71	20	White round tower, black bands, hut; 75.	Visible 029°-031°, 035°-251°, 267°-287°.
ILHA TERCEIRA:							
23504 <i>D 2668</i>	-Ponta da Serreta.	38° 46.0' N 27° 22.5' W	Fl.(3)W. period 15s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 8s	315 96	21	Round column; 49.	
23508 <i>D 2669</i>	-Biscoitos.	38° 48.1' N 27° 15.5' W	Oc.W. period 6s lt. 4s, ec. 2s	43 13	9	White column, red bands; 10.	
23512 <i>D 2660</i>	-Vila Nova.	38° 46.9' N 27° 08.5' W	Iso.W. period 6s	36 11	9	Truncated pyramid; 7.	
23516 <i>D 2661</i>	-Lajes AVIATION LIGHT.	38° 45.6' N 27° 04.8' W	Al.Fl.W.G. period 10s	436 133	W. 28 G. 23	Wooden framework tower; 62.	
23524 <i>D 2662</i>	-Praia da Vitoria, N. mole, head.	38° 43.6' N 27° 03.0' W	Fl.G. period 5s fl. 1s, ec. 4s	39 12	6	Gray column, green lantern; 10.	
23525 <i>D 2662.5</i>	--S. mole, head.	38° 43.2' N 27° 02.9' W	Fl.R. period 3s fl. 1s, ec. 2s		8	White concrete tower, red bands; 52.	
23528 <i>D 2663.5</i>	-Ponta de Sao Fernando, at Rivera Seca.	38° 40.6' N 27° 03.9' W	Oc.R. period 3s lt. 2s, ec. 1s	20 6	6	Black square truncated pyramid; 10.	
23532 <i>D 2664</i>	-Ponta das Contendas.	38° 38.7' N 27° 05.1' W	Fl.(4)W.R. period 15s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 7.2s	173 53	23	White square tower attached to building; 43.	W. 220°-020°, R.-044°, W.-072°, R.-093°.
23536 <i>D 2665</i>	-Porto Judeu.	38° 38.9' N 27° 07.0' W	Fl.W. period 3s fl. 1s, ec. 2s	92 28	7	Truncated pyramid; 7.	
23540 <i>D 2666</i>	-Bahia Angra, Ponte de Sto. Antonio (Monte Brasil).	38° 38.6' N 27° 13.1' W	Oc.W.R. period 10s lt. 6s, ec. 4s	72 22	12	Round column, red and white bands; 16.	R. 191°-295°, W.-057°. 2 Oc.R. 2s and 2 F.R. on radio mast 1.5 miles 350°.
23544 <i>D 2666.2</i>	--Angra do Heroismo entrance Range, front.	38° 39.2' N 27° 13.3' W	Fl.R. period 4s fl. 1s, ec. 3s	98 30	7	Misericordia Church, E. tower; 65.	
23548 <i>D 2666.21</i>	---Rear, about 140 meters 342° from front.	38° 39.3' N 27° 13.1' W	Oc.R. period 6s lt. 4s, ec. 2s	180 55	7	Yellow metal structure.	
23552 <i>D 2666.6</i>	-Bay Angra, about 2 km. NE. of Pt. Farol.	38° 39.4' N 27° 12.2' W	F.R.	98 30		Highest point of dairy products factory building; 98.	
23556 <i>D 2666.5</i>	--Porto Pipas, mole, head.	38° 39.1' N 27° 13.0' W	Fl.G. period 3s	49 15	6	Green column, white bands; 16.	
23560 <i>D 2666.7</i>	-Sao Mateus.	38° 39.3' N 27° 16.1' W	Iso.W.R. period 6s	39 12	W. 10 R. 7	White column, red bands; 10.	R. 270°-296°, W.-067°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ACORES (AZORES) (P.)							
23564 D 2667	-Cinco Ribeiras.	38° 40.6' N 27° 19.8' W	L.FI.W. period 6s fl. 2s, ec. 4s	75 23	12	White tower, red bands; 7.	Reserve light range 4M.
ILHA DE SAO MIGUEL:							
23568 D 2655	-Ponta da Ferraria.	37° 51.2' N 25° 51.1' W	Fl.(3)W. period 20s fl. 0.4s, ec. 3.6s fl. 0.4s, ec. 3.6s fl. 0.4s, ec. 11.6s	351 107	27	White square tower attached to two-story building; 59.	Visible 339°-174°. Reserve light range 25M. Signal station.
23572 D 2655.4	-Mosteiros.	37° 53.9' N 25° 49.4' W	Oc.R. period 3s lt. 2s, ec. 1s	33 10	6	White column, red bands, red lantern; 13.	Visible 090°-155°.
23576 D 2655.6	-Bretanha.	37° 54.9' N 25° 45.3' W	L.FI.W. period 6s fl. 2s, ec. 4s		10	White concrete column; 3.	
23580 D 2654	-Santa Clara.	37° 43.9' N 25° 41.2' W	L.FI.W. period 5s fl. 2s, ec. 3s	88 27	15	Red iron skeleton structure; 26.	Visible 282°-102°.
23584 D 2647	--Breakwater, E. extremity.	37° 44.2' N 25° 39.4' W	Oc.R. period 3s lt. 2s, ec. 1s	56 17	5	Truncated tower, red and white bands; 23.	
-Ponta Delgada Harbor:							
23588 D 2649	--Approach Range, front, E. end of town.	37° 44.5' N 25° 39.6' W	Iso.G. period 5s	49 15	7	White facade, yellow house; 9.	
23592 D 2649.1	---Rear, Mail de Deus Church, 190 meters 321° from front.	37° 44.6' N 25° 39.7' W	Oc.G. period 5s lt. 3.5s, ec. 1.5s	161 49	7	Post, red and white bands, black lantern; 15.	
23594 D 2648	--Marina.	37° 44.4' N 25° 39.5' W	Oc.G. period 3s lt. 2s, ec. 1s	43 13	10	Round tower, green and white bands; 20.	
23596 D 2650	--Entrance Range, front, Fort de S. Bras.	37° 44.1' N 25° 40.3' W	Oc.R. period 6s lt. 3.5s, ec. 2.5s	46 14	9	E. bastion of fort; 13.	
23600 D 2650.1	---Rear, 27 meters 266° from front.	37° 44.2' N 25° 40.3' W	Oc.R. period 6s lt. 3.5s, ec. 2.5s	66 20	9	On the fort; 16.	
23604 D 2654.2	-AVIATION LIGHT, at airport.	37° 44.7' N 25° 42.5' W	Al.FI.W.G. period 10s	276 84	W. 28 G. 23		Visible 282°-124°. Occasional.
23608 D 2646	-Lagoa.	37° 44.6' N 25° 34.5' W	FI.R. period 3s fl. 1s, ec. 2s	30 9	6	Metal column, red and white bands; 13.	
23612 D 2645	-Porto da Caloura, S. extremity of mole.	37° 42.8' N 25° 29.8' W	FI.W. period 4s fl. 1.5s, ec. 2.5s	23 7	9	Column, red and white band; 7.	2 Oc. G. 3s lights in line 332°24' lead into port.
-Vila Franca do Campo:							
23616 D 2643.4	--Varadouro.	37° 43.0' N 25° 25.9' W	L.FI.R. period 5s fl. 2s, ec. 3s	39 12	7	Tower, red and white bands on building.	
23620 D 2643	--Range, front near E. mole, head.	37° 42.8' N 25° 25.9' W	Oc.G. period 5s lt. 3s, ec. 2s	26 8	5	Post, red and white bands.	
23624 D 2643.1	---Rear, 100 meters 316°30' from front.	37° 43.0' N 25° 25.9' W	Oc.G. period 5s lt. 3s, ec. 2s	39 12	5	On a white house.	
23628 D 2642	-Ponta da Garca.	37° 42.8' N 25° 22.2' W	L.FI.W.R. period 5s fl. 2s, ec. 3s	331 101	W. 16 R. 13	White cylindrical concrete tower and dwelling; 46.	W. 240°-080°, R.-100°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ACORES (AZORES) (P.)							
23634 <i>D 2640.5</i>	Povoacao, Varadouro Mole, head.	37° 44.7' N 25° 14.8' W	Oc.R. period 4s lt. 2.5s, ec. 1.5s	30 9	6	Column, red and white bands; 23.	
23636 <i>D 2640</i>	-Ponta do Arnel.	37° 49.3' N 25° 08.2' W	Fl.W. period 5s fl. 0.2s, ec. 4.8s	217 66	25	White octagonal tower on dwelling; 49.	Visible 157°-355°. Reserve light range 21M. Aeromarine light.
23640 <i>D 2659</i>	-Ponta do Cintrao.	37° 50.6' N 25° 29.3' W	Fl.(2)W. period 10s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	387 118	14	Gray cylindrical concrete tower, dwelling; 46.	
23644 <i>D 2659.4</i>	-Port Formoso.	37° 49.4' N 25° 25.6' W	Fl.R. period 4s fl. 1.5s, ec. 2.5s		6	Red lantern on white building, red bands; 10.	
23648 <i>D 2656</i>	-Porto de Capelas, N. side of island.	37° 50.4' N 25° 41.2' W	Iso.R. period 4s	377 115	8	Red iron hut; 23.	Visible 153°-281°.
23652 <i>D 2657</i>	-Rabo de Peixe Igreja do Bon Jesus.	37° 48.9' N 25° 34.9' W	Oc.G. period 4s lt. 3s, ec. 1s	194 59	5	Top of tower of Bom Jesus Church; 92.	Visible 185°-220°.
ILHA DE SANTA MARIA:							
23664 <i>D 2632</i>	-Goncalo Velho.	36° 55.6' N 25° 00.9' W	Fl.(3)W. period 13.5s fl. 0.4s, ec. 2.5s fl. 0.4s, ec. 2.2s fl. 0.4s, ec. 7.6s	374 114	25	White square masonry tower, attached dwelling; 46.	Visible 181°-089°. Aeromarine light.
23668 <i>D 2636</i>	-Ponta do Malmerendo, W. side of entrance to Vila do Porto.	36° 56.4' N 25° 09.4' W	Fl.(2)W. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	164 50	10	White building, red lantern; 20.	Visible 282°-091°.
23670 <i>D 2635.3</i>	-Mole, head.	36° 56.5' N 25° 08.9' W	L.Fl.R. period 5s fl. 2s, ec. 3s	49 15	5	Truncated conical tower, red and white bands; 26.	
23680 <i>D 2634</i>	-AVIATION LIGHT, about 3.7 km. 349° from Ponta do Malmerendo.	36° 59.3' N 25° 10.0' W	Al.Fl.W.G. period 10s	384 117	25	Control tower.	Visible 021°-121°. Shown during low visibility in daytime. Occasional. Aero Radiobeacon about 1.5 miles NNW.
23684 <i>D 2633.7</i>	-Baia dos Anjos Range, front.	37° 00.4' N 25° 09.2' W	Fl.W. period 3s fl. 1s, ec. 2s	43 13	10	Post, red and white stripes; 13.	
23688 <i>D 2633.71</i>	--Rear, about 91 meters 202° from front.	37° 00.2' N 25° 09.5' W	L.Fl.W. period 6s fl. 2s, ec. 4s	69 21	10	Post, red and white stripes; 13.	
23692 <i>D 2633</i>	-Ponta do Norte.	37° 00.5' N 25° 03.6' W	Fl.(4)W. period 15s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 5s	456 139	10	White hexagonal column; 13.	F.R. 6M on radio tower 0.2 miles 131°.
23696 <i>D 2632.3</i>	-Sao Lourenco Range, front.	36° 59.5' N 25° 03.4' W	L.Fl.R. period 5s fl. 2s, ec. 3s	85 26	6	White post, red bands on white house with blue arches, red lantern; 20.	Range difficult to distinguish against background lights.
23700 <i>D 2632.4</i>	--Rear, about 64 meters 273.3° from front.	36° 59.5' N 25° 03.4' W	Oc.R. period 7.5s lt. 4s, ec. 3.5s	121 37	6	Red lantern on house with veranda; 7.	
23702 <i>D 2632.2</i>	-Espigao.	36° 58.9' N 25° 02.9' W	Fl.W. period 7s fl. 1s, ec. 6s	679 207	12	Round column, red and white bands; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ACORES (AZORES) (P.)							
ILHEUS FORMIGAS:							
23704 D 2638	-Formigas, on a rock about 0.5 km. S. of islet.	32° 16.1' N 24° 46.8' W	Fl.(2)W. period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 9.5s	72 22	9	Conical masonry tower; 62.	
ARQUIPELAGO DA MADEIRA (MADEIRA ISLANDS) (P.)							
ILHA DA MADEIRA:							
23708 D 2754	-Ilheu Mole, highest part.	32° 52.1' N 17° 09.8' W	Fl.W.R. period 5s fl. 1s, ec. 4s	213 65	W. 10 R. 8	Hexagonal tower; 10.	R. 116°-127° over Baixas do Moniz, W.-116°.
23712 D 2752	-Ponta do Pargo.	32° 48.7' N 17° 15.8' W	Fl.(3)W. period 20s fl. 0.5s, ec. 2.8s fl. 0.5s, ec. 2.8s fl. 0.5s, ec. 12.9s	1024 312	26	Quadrangular masonry tower, attached dwelling; 46.	Reserve light range 21M.
23716 D 2750	-Paul do Mar.	32° 45.1' N 17° 13.4' W	Oc.R. period 3s lt. 2s, ec. 1s	56 17	6	Post, red and white stripes; 43.	
23720 D 2746	-Ribeira Brava, S. side of island.	32° 40.0' N 17° 03.8' W	Fl.R. period 5s fl. 1.5s, ec. 3.5s	112 34	8	Red hut; 6.	
23724 D 2744	-Camara de Lobos, bay, W. side.	32° 38.8' N 16° 58.5' W	Oc.R. period 6s lt. 4s, ec. 2s	75 23	9	White hut; 6.	Visible 304°-099°.
23726 D 2743	-Vitoria.	32° 38.3' N 16° 57.8' W	Q.(6)+L.Fl.W. period 15s	49 15	9	Two round columns, red and white bands; 33.	
-Funchal:							
23728 D 2738	--Breakwater, head.	32° 38.3' N 16° 54.2' W	Fl.R. period 5s fl. 1s, ec. 4s	49 15	8	Truncated column, red and white bands; 20.	Visible 275°-075°. F.R. 3M and F.G. 2M mark heads of breakwaters in Marina to NW.
23732 D 2728	Sao Roque.	32° 42.8' N 16° 45.8' W	L.Fl.W.R. period 5s fl. 2s, ec. 3s	23 7	W. 9 R. 7	White column, red bands, on hut; 13.	R. 230°-265°, W.-230°.
23736 D 2730	--Cais Machico.	32° 43.0' N 16° 45.5' W	Fl.G. period 3s fl. 1s, ec. 2s	20 6	5	Column with green and white bands.	
23740 D 2726	-Ponta de Sao Lourenco.	32° 43.7' N 16° 39.4' W	Fl.W. period 5s fl. 0.5s, ec. 4.5s	338 103	20	White octagonal tower on dwelling; 33.	Reserve light range 17M. Aero Radiobeacon 2.6 miles NW.
23744 D 2755	-Sao Jorge.	32° 49.9' N 16° 54.4' W	L.Fl.W. period 5s fl. 2s, ec. 3s	889 271	15	Cylindrical tower, attached dwelling; 46.	Reserve light range 12M.
ILHAS DESERTAS:							
23748 D 2720	-Ilheu Chao, on N. extremity.	32° 35.3' N 16° 32.7' W	L.Fl.(2)W. period 15s fl. 2s, ec. 2s fl. 2s, ec. 9s	367 112	13	Cylindrical tower near dwelling; 46.	
23752 D 2722	-Ilheu de Bugio, S. end, (Ponta da Agulha).	32° 24.2' N 16° 27.7' W	Fl.W. period 4s fl. 1s, ec. 3s	236 72	13	Hexagonal tower; 26.	Visible 163°-100°.

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ARQUIPELAGO DA MADEIRA (MADEIRA ISLANDS) (P.)							
ILHA DE PORTO SANTO:							
23756 D 2756	-Ilheu de Cima.	33° 03.2' N 16° 16.7' W	Fl.(3)W. period 15s fl. 0.4s, ec. 1.6s fl. 0.4s, ec. 1.6s fl. 0.4s, ec. 10.6s	407 124	29	White quadrangular masonry tower, attached dwelling; 49.	Reserve light range 17M. Aero Radiobeacon.
23760 D 2759	-Baia de Porto Santa Range, front.	33° 03.3' N 16° 20.0' W	L.Fl.R. period 6s fl. 2s, ec. 4s	46 14	5	White pillar; 6.	
23764 D 2759.1	--Rear, 494 meters 328°06' from front.	33° 04.0' N 16° 20.0' W	L.Fl.R. period 6s fl. 2s, ec. 4s	164 50	5	White column; 6.	
23765 D 2757.2	New Port, N. mole, head.	33° 03.5' N 16° 18.9' W	Fl.R. period 4s fl. 1s, ec. 3s	43 13	7	Column, red and white bands.	
23766 D 2757	-S. mole, head.	33° 03.5' N 16° 18.8' W	Fl.G. period 4s fl. 1s, ec. 3s	56 17	6	Column, green and white bands.	
23767 D 2763	-N. Coast Ilha de Porto Santo.	33° 05.3' N 16° 20.1' W	Fl.(2)W. period 10s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 7.2s	361 110	12	Round tower, red and white bands; 15.	Visible 064°-243°.
23768 D 2762	Ilheu de Ferro.	33° 02.2' N 16° 24.3' W	L.Fl.W. period 15s fl. 3s, ec. 12s	426 130	13	Cylindrical tower and dwelling; 46.	
23772 D 2769	Selvagem Pequena.	30° 02.0' N 16° 01.6' W	Fl.(2)W. period 6s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 3.5s	164 50	12	Concrete column; 3.	
23776 D 2768	-Selvagem Grande.	30° 08.6' N 15° 52.2' W	Fl.W. period 4s fl. 1s, ec. 3s	535 163	13	Tower, red and white bands; 33.	
ISLAS CANARIAS (CANARY ISLANDS) (S.)							
ISLA DE LA PALMA:							
23780 D 2846	-Punta Cumplida.	28° 50.3' N 17° 46.6' W	Fl.W. period 5s fl. 0.5s, ec. 4.5s	207 63	24	Dark gray conical tower, white top; 112.	
23784 D 2848	-Santa Cruz de la Palma, mole, head.	28° 40.2' N 17° 45.8' W	Fl.(3)W. period 10s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 7.5s	39 12	5	E. CARDINAL BYB, post, topmark; 13.	
23794 D 2848.4	--Darsena Pesquera breakwater, elbow.	28° 40.3' N 17° 46.1' W	Fl.(4)R. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	30 9	3	Red post, square topmark; 13.	
23796 D 2848.5	--Head.	28° 40.4' N 17° 46.1' W	Fl.R. period 5s fl. 0.5s, ec. 4.5s	30 9	3	Red post; 13.	

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ISLAS CANARIAS (CANARY ISLANDS) (S.)							
23797 <i>D 2849</i>	-Muelle Polivalente, head.	28° 40.5' N 17° 46.1' W	Fl.(2+1)R. period 21s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 13.5s	30 9	3	Red truncated tower, green band; 13.	
23798 <i>D 2849.51</i>	-Punta de Arenas Blancas.	28° 34.6' N 17° 45.7' W	Oc.(3)W. period 8s lt. 3s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s	151 46	20	White round tower; 125.	
23800 <i>D 2850</i>	-Punta de Fuencaliente, S. end of island.	28° 27.2' N 17° 50.0' W	Fl.(3)W. period 18s fl. 1s, ec. 3s fl. 1s, ec. 3s fl. 1s, ec. 9s	118 36	14	White round tower, red bands; 79.	Visible 230°30'-118°30'.
23801 <i>D 2851</i>	-Punta Lava.	28° 35.6' N 17° 55.5' W	Fl.(1+2)W. period 20s	276 84	20	White octagonal tower.	
23802 <i>D 2852</i>	-Tazacorte Harbor, shelter dike.	28° 38.5' N 17° 56.5' W	Fl.(2)R. period 7s fl. 0.8s, ec. 0.8s fl. 0.8s, ec. 4.6s	56 17	5	Red metal tower; 3.	
HIERRO:							
23804 <i>D 2838</i>	-Puerto de Hierro, mole, head.	27° 46.9' N 17° 53.9' W	Fl.G. period 7.5s fl. 0.5s, ec. 7s	46 14	5	Green pyramidal tower, gray round base; 23.	
23808 <i>D 2836</i>	-Punta Orchilla.	27° 42.5' N 18° 08.8' W	Fl.W. period 5s fl. 0.3s, ec. 4.7s	433 132	24	Gray octagonal masonry tower, square base; 82.	
23810 <i>D 2837</i>	-Puerto de Restinga.	27° 38.3' N 17° 58.9' W	Q.(2)G. period 7s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 5.5s	49 15	5	Framework tower.	
ISLA DE LA GOMERA:							
23812 <i>D 2842</i>	-Punta de San Cristobal.	28° 05.5' N 17° 05.9' W	Fl.(2)W. period 10s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 7.3s	277 84	20	White tower, red bands, two galleries, on dwelling; 49.	
23816 <i>D 2844.75</i>	-Puerto de Sebastian, corner of breakwater.	28° 05.0' N 17° 06.4' W	Fl.(2)G. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	3	Green post; 10.	
23820 <i>D 2844</i>	-Entrance Range, front, 251 meters 342°42' from Puerto de Sebastian.	28° 05.2' N 17° 06.4' W	F.W.	30 9	2	Red and white banded mast, red and white checkered daymark; 23.	
23824 <i>D 2844.1</i>	--Rear, 18 meters 017° from front.	28° 05.2' N 17° 06.4' W	F.W.	40 12	2	Red and white banded mast, red and white checkered daymark; 23.	
23824.5 <i>D 2844.67</i>	-Directional light.	28° 05.2' N 17° 06.5' W	Oc.W.R.G. period 2s lt. 1.8s, ec. 0.2s	62 19	2	Post; 49.	G. 346°-011°, W.-016°, R.-046°.
23825 <i>D 2845</i>	-Playade Santiago.	28° 01.5' N 17° 11.7' W	Fl.R. period 2s fl. 0.5s, ec. 1.5s	46 14	5	Lattice pillar; 7.	
23826 <i>D 2845.5</i>	-Vueltas Valle Gran Rey.	28° 04.7' N 17° 19.8' W	Fl.R. period 6s fl. 1.5s, ec. 4.5s	52 16	3	White tower with red bands; 7.	

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ISLAS CANARIAS (CANARY ISLANDS) (S.)							
ISLA DE TENERIFE:							
23828 <i>D 2828</i>	-Punta de Abona.	28° 08.8' N 16° 25.5' W	Fl.(3)W. period 20s fl. 0.3s, ec. 3.6s fl. 0.3s, ec. 3.6s fl. 0.3s, ec. 11.9s	177 54	17	Round tower, white with red bands, two galleries, on dwelling; 128.	Visible 213°36'-040°18'.
23832 <i>D 2830</i>	-Punta Rasca.	28° 00.0' N 16° 41.6' W	Fl.(3)W. period 12s	164 50	17	Round white tower with red bands; 105.	Aero Radiobeacon 7.7 miles ENE.
23836 <i>D 2831</i>	-Puerto de los Cristianos, breakwater, head.	28° 02.7' N 16° 42.9' W	Fl.R. period 5s fl. 0.5s, ec. 4.5s	43 13	5	Red mast; 20.	
23838 <i>D 2831.8</i>	-Punta de Buenavista.	28° 23.5' N 16° 50.2' W	Fl.(4)W. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	167 51	16	White square tower.	
23840 <i>D 2832</i>	-Punta de Teno.	28° 20.5' N 16° 54.8' W	Fl.(1+2)W. period 20s fl. 0.3s, ec. 8.3s fl. 0.3s, ec. 2.5s fl. 0.3s, ec. 8.3s	196 60	18	White round tower, red bands, 2 galleries; 65.	
23842 <i>D 2833</i>	-Puerto de la Cruz.	28° 25.0' N 16° 33.2' W	Fl.(2)W. period 7s	79 24	12		
23844 <i>D 2834</i>	-N. mole, head.	28° 25.0' N 16° 32.9' W	Iso.G. period 2s	26 8	4	Green round post; 10.	
23848 <i>D 2835</i>	--S. mole, head.	28° 25.0' N 16° 32.9' W	Fl.(2)R. period 9s fl. 1s, ec. 1s fl. 1s, ec. 6s	23 7	3	Red round post; 10.	
23852 <i>D 2820</i>	-Punta de Anaga.	28° 34.8' N 16° 08.3' W	Fl.(2+4)W. period 30s fl. 0.4s, ec. 2.5s fl. 0.4s, ec. 8.8s fl. 0.4s, ec. 2.5s fl. 0.4s, ec. 2.5s fl. 0.4s, ec. 2.5s fl. 0.4s, ec. 8.8s	810 247	21	Gray conical tower, white lantern; 39.	
23854 <i>D 2818</i>	-Punta del Hidalgo.	28° 34.6' N 16° 19.3' W	Fl.(3)W. period 16s fl. 1.5s, ec. 2s fl. 1.5s, ec. 2s fl. 1.5s, ec. 7.5s	171 52	16	Masonry tower; 164.	
23856 <i>D 2821</i>	-Los Rodeos, AVIATION LIGHT.	28° 29.3' N 16° 18.4' W	Fl.W. period 5s	2136 651	37	Iron tower; 46.	Shown from sunset to sunrise. Radiobeacon 28°28'50"N. 16°15'45"W.
-Santa Cruz de Tenerife:							
23859 <i>D 2822.8</i>	--Digue del Este, head.	28° 29.0' N 16° 13.7' W	Fl.(2)G. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	43 13	9	Green conical tower; 20.	
23860 <i>D 2823.4</i>	---First elbow.	28° 29.2' N 16° 13.1' W	Q.(3)W. period 10s	39 12	4	E. CARDINAL BYB, tower, topmark.	
23864 <i>D 2823</i>	---Second Elbow.	28° 28.9' N 16° 13.4' W	V.Q.(6)+L.Fl.W. period 10s	36 11	5	S. CARDINAL YB, post, topmark.	
23866 <i>D 2824</i>	--Muelle del Bufadero.	28° 29.1' N 16° 13.8' W	Fl.R. period 4s fl. 1s, ec. 3s	30 9	2	Red post; 7.	

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ISLAS CANARIAS (CANARY ISLANDS) (S.)							
23868 <i>D 2822</i>	--Muelle- Dique de Sur, head.	28° 28.7' N 16° 14.0' W	Q.(2)R. period 5s fl. 0.6s, ec. 0.6s fl. 0.6s, ec. 3.2s	36 11	9	Red column; 9.	Aero Radiobeacon 3.8 miles W.
23869 <i>D 2822.2</i>	--Dique de abrigo de la E.S.M.C., head.	28° 28.7' N 16° 14.3' W	Fl.(4)G. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 3.5s		3	Green metal post.	
23870 <i>D 2822.3</i>	---N. corner.	28° 28.8' N 16° 14.2' W	Fl.G. period 4s		2	Post.	
23872 <i>D 2822.4</i>	--N. mole, head.	28° 28.5' N 16° 14.4' W	Fl.G. period 2.3s fl. 0.5s, ec. 1.8s	20 6	2	Green masonry tower; 7.	
23873 <i>D 2822.45</i>	--Darsena de Anaga, NE corner.	28° 28.3' N 16° 14.6' W	Fl.Y. period 5s fl. 5s, ec. 4.5s	30 9	1	Yellow conical tower; 13.	Synchronized with 23874.
23874 <i>D 2822.46</i>	---NW corner.	28° 28.3' N 16° 14.7' W	Fl.Y. period 5s fl. 5s, ec. 4.5s	30 9	1	Yellow conical tower; 13.	Synchronized with 23873.
23876 <i>D 2826</i>	--Darsena Pesquera, Dique de Abrigo, on angle, head.	28° 29.6' N 16° 12.7' W	Fl.G. period 5s fl. 0.5s, ec. 4.5s	36 11	3	Green round tower; 16.	
23880 <i>D 2826.2</i>	---At 95 meters 332°24' (in water).	28° 29.6' N 16° 12.7' W	Fl.(2)G. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	13 4	1	Round green metal column.	
23884 <i>D 2826.4</i>	---At 201 meters 343° (in water).	28° 29.7' N 16° 12.7' W	Fl.(2)R. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	13 4	1	Round red metal column.	
23888 <i>D 2831.6</i>	--NE. end of dock.	28° 14.8' N 16° 50.4' W	Fl.(2)R. period 9s fl. 1s, ec. 1.5s fl. 1s, ec. 5.5s	33 10	4	Red metal tripod.	
23892 <i>D 2831.5</i>	--Santiago, SW. dock, head.	28° 15.0' N 16° 50.0' W	Fl.(2) G. period 9s fl. 1.5s, ec. 1.5s fl. 1.5s, ec. 4.5s	36 11	3	White and green posts.	
23896	--Dock, SW.	28° 15.0' N 16° 50.0' W	Fl.W. period 1.6s		4		
23900 <i>D 2827.2</i>	--Puerto de la Hondura (Puerto Caballo), oil pier, E. angle.	28° 27.0' N 16° 16.0' W	F.R.	28 9	3	Yellow post, black diagonal stripes; 7.	Lighted ranges are established for anchorage, lights are shown from group of dolphins close northeastward.
23904 <i>D 2827</i>	--W. angle.	28° 26.8' N 16° 15.8' W	Iso.G. period 3.4s	31 9	5	Metal green post; 20.	F.W. lights are shown from loading platform about 229 meters 058°. Lighted mooring buoy, Q.Y., about 78 meters 121°.
23908 <i>D 2826.86</i>	--Muelle de Ribera.	28° 27.3' N 16° 14.8' W	Q.R.	20 6	2	Red spar tower.	
23909 <i>D 2826.78</i>	--Inside mole, head.	28° 27.6' N 16° 14.8' W	Q.G.	20 6	2	Green metal post; 10.	
23910 <i>D 2826.9</i>	--Entrance Range, front.	28° 27.5' N 16° 14.9' W	Iso.W. period 1s	26 8	3	White framework tower, red bands; 16.	
23910.5 <i>D 2826.91</i>	--Rear, 71 meters 002° from front.	28° 27.6' N 16° 14.9' W	Oc.W. period 4s lt. 3s, ec. 1s	39 12	3	White framework tower, red bands; 33.	

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ISLAS CANARIAS (CANARY ISLANDS) (S.)							
23912 <i>D 2826.6</i>	-Dique de los Llanos, E. extremity.	28° 27.2' N 16° 14.7' W	Fl.(3)G. period 10s fl. 0.8s, ec. 1.6s fl. 0.8s, ec. 1.6s fl. 0.8s, ec. 4.4s	43 13	9	Round green tower; 20.	
23913 <i>D 2826.74</i>	--W. extremity.	28° 27.3' N 16° 14.7' W	Oc.G. period 4s lt. 3s, ec. 1s	20 6	2	Green metal post; 10.	
23916 <i>D 2826.7</i>	--Elbow.	28° 27.9' N 16° 14.4' W	Q.(3)W. period 10s	29 9	5	E. CARDINAL BYB, post, topmark.	
23917 <i>D 2826.82</i>	--W. breakwater, head.	28° 27.2' N 16° 14.8' W	Fl.(3)R. period 10s	26 8	9	PORT (A) R, tower, topmark.	
23918 <i>D 2827.9</i>	-Puerto Radazul, breakwater, head.	28° 23.9' N 16° 19.3' W	Fl.(2)G. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	33 10	4	Green round post; 7.	
23920 <i>D 2827.94</i>	-Puerto de Candelaria, jetty, head.	28° 21.3' N 16° 22.0' W	Fl.G. period 2s fl. 0.4s, ec. 1.6s	29 9	4	Cylindrical post; 6.	
23924 <i>D 2827.98</i>	--Contradique.	28° 21.3' N 16° 22.0' W	Fl.(2)R. period 8s fl. 0.3s, ec. 1s fl. 0.3s, ec. 6.4s	19 6	2	Cylindrical post; 6.	
ISLA DE GRAN CANARIA:							
23928 <i>D 2816</i>	-Punta Sardinia, NW.	28° 09.8' N 15° 42.4' W	Fl.(4)W. period 20s fl. 0.3s, ec. 3s fl. 0.3s, ec. 3s fl. 0.3s, ec. 3s fl. 0.3s, ec. 9.8s	154 47	20	White round tower, red bands; 79.	
23932 <i>D 2798</i>	-La Isleta.	28° 10.4' N 15° 25.0' W	Fl.(1+3)W. period 20s fl. 0.3s, ec. 2.5s fl. 0.3s, ec. 2.5s fl. 0.3s, ec. 6.9s fl. 0.3s, ec. 6.9s	817 249	21	Dark gray conical tower, white lantern; 32.	Up to a distance of 11 km. a W. light may be distinguished in interval between flashes. Radiobeacon.
23936 <i>D 2799</i>	-Radio Atlantico, AVIATION LIGHT.	28° 01.0' N 15° 35.1' W	Oc.R. period 3s lt. 2s, ec. 1s		40	Radio mast; 180.	Height of light is 5142.8 feet or 1604 meters.
23938 <i>D 2799.68</i>	-Puerto de la Luz, breakwater, head.	28° 07.5' N 15° 24.3' W	Fl.G. period 5s	69 21	10	Lattice tower; 26.	
23939 <i>D 2799.65</i>	--First elbow.	28° 07.8' N 15° 24.3' W	Q.(3)W. period 5s	43 13	8		
23940 <i>D 2799.6</i>	--Second elbow.	28° 07.8' N 15° 24.3' W	Q.(2)G. period 6s	26 8	4	Octagonal tower; 33.	Visible 335°30'-181°30'.
23942 <i>D 2799.66</i>	--Entrance Range, front.	28° 09.3' N 15° 24.6' W	Iso.W. period 4s	49 15	6	Post; 3.	
23942.1 <i>D 2799.67</i>	---Rear, 609 meters 000° from front.	28° 09.6' N 15° 24.6' W	Oc.W. period 6s lt. 4s, ec. 2s	102 31	6	Post; 33.	
23944 <i>D 2802</i>	--Wharf, head.	28° 08.0' N 15° 25.0' W	F.R.	16 5	1	Black quadrangular metal tower; 9.	
23945 <i>D 2803.2</i>	---SW. corner of wharf.	28° 08.3' N 15° 25.3' W	Fl.G. period 3s fl. 0.4s, ec. 2.6s	26 8	2	Round green masonry tower; 20.	
23948 <i>D 2800.4</i>	--"EN2" mole, E. corner.	28° 08.6' N 15° 24.7' W	Q.(3)R. period 6s	26 8	2	Red support tower; 6.	Visible 150°-000°.

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ISLAS CANARIAS (CANARY ISLANDS) (S.)							
23953 <i>D 2803.3</i>	--Cory pier, W.	28° 08.7' N 15° 25.4' W	Q.G.	30 9	3	Metal post; 13.	
23954 <i>D 2803.35</i>	---E.	28° 08.7' N 15° 25.4' W	Q.R.	30 9	3	Metal post; 13.	
23956 <i>D 2800</i>	-Puerto de la Luz, head of W. breakwater (Dique del Generalissimo Franco).	28° 07.6' N 15° 25.0' W	Fl.(3)G. period 12s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 5s	55 17	7	Gray octagonal stone tower; 29.	Visible 291°-182°.
23960 <i>D 2799.7</i>	--Contradique, interior, head.	28° 08.3' N 15° 24.6' W	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	29 9	4	Red round masonry tower; 19.	
23964 <i>D 2800.2</i>	---Outer, head.	28° 07.9' N 15° 24.6' W	Fl.R. period 4s fl. 1s, ec. 3s	33 10	4	Red round masonry tower; 16.	
23968 <i>D 2801</i>	--E. Basin Range, front.	28° 08.7' N 15° 25.0' W	Iso.W. period 4s	72 22	4	White column on building; 59.	Difficult to distinguish by day.
23972 <i>D 2801.1</i>	---Rear, 74 meters 001° from front.	28° 08.9' N 15° 25.1' W	Oc.(2)W. period 7s lt. 3s, ec. 1s lt. 2s, ec. 1s	79 24	4	White column on building; 69.	Difficult to distinguish by day.
23976 <i>D 2804</i>	--Muelle de Santa Catalina, head.	28° 08.4' N 15° 25.3' W	Fl.(4)R. period 10s	36 11	2	Gray rubblework; 19.	F.R. 1M shown from N. and S. ends of Muelle de Arsenal.
23980 <i>D 2806</i>	--Muelle de transbordadores, SE. head.	28° 08.3' N 15° 25.2' W	Fl.(2+1)R. period 12.5s	26 8	3	Red round masonry tower; 19.	
23984 <i>D 2807</i>	---SW. head.	28° 08.3' N 15° 25.3' W	Fl.G. period 5s fl. 0.5s, ec. 4.5s	20 6	3	Green metal post; 20.	
23988 <i>D 2802.37</i>	--Small craft basin, E. breakwater, head.	28° 07.7' N 15° 25.4' W	Fl.R. period 3s fl. 0.3s, ec. 2.7s	26 8	3	Red round tower; 16.	Fl.(2)R. 8s 7m 3M shown from root of breakwater.
23989 <i>D 2802.36</i>	---W. breakwater, head.	28° 07.7' N 15° 25.4' W	Fl.(2+1)R. period 15s fl. 1s, ec. 2s fl. 1s, ec. 5s fl. 1s, ec. 5s	33 10	3	Red post, green bands; 20.	
23989.5 <i>D 2807.35</i>	---W. breakwater, elbow.	28° 07.8' N 15° 25.5' W	Fl.(3) W. period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	16 5	3	E. CARDINAL BYB, post, topmark; 13.	
23990 <i>D 2807.5</i>	-Punta Melenara.	27° 59.4' N 15° 21.9' W	Fl.(2)W.R. period 12s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 8.5s	108 33	12	White round tower; 56.	W. 270°-152°, R.-270°.
23992 <i>D 2808</i>	-Bahia de Salinetas, pier, head.	27° 58.4' N 15° 22.5' W	Oc.G. period 4s lt. 3s, ec. 1s	51 16	3	Gray post on corner of gray building.	
23996 <i>D 2809</i>	--Bahia de Melenara anchorage range N-S.	27° 58.5' N 15° 22.5' W	Dir.F.W.R.G.	30 9	1	Mast; 23.	G. 330°-358°, W.-002°, R.-030°??Two Oc.W. lights spaced 50 meters apart, in N./S. direction establish a range with above light. Occasional.
24000 <i>D 2809.4</i>	--Punta de la Hullera anchorage range E-W.	27° 58.4' N 15° 22.8' W	Dir.Iso.W.R.G. period 2s	26 8	1	Metal mast; 23.	G. 240°-268°, W.-272°, R.-300°??Two Oc.W. lights spaced 32 meters apart in E./W. direction establish a range with above light..

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ISLAS CANARIAS (CANARY ISLANDS) (S.)							
24008 <i>D 2812</i>	-Punta Arinaga.	27° 51.2' N 15° 23.0' W	Fl.(3)W.R. period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	154 47	W. 12 R. 9	White round tower, red bands; 46.	W. 052°-172°, R.-212°, W.-012°, R.-052°. 8 Oc.R. 5s lights (quadrangle) are shown from summit of Monte Arinaga, about 1.1 km. 306°.
24012 <i>D 2814</i>	-Maspalomas.	27° 44.0' N 15° 35.0' W	Fl.(1+2)W. period 13s fl. 1s, ec. 4s fl. 1s, ec. 2s fl. 1s, ec. 4s	197 60	19	Bluish gray conical tower, white lantern; 184.	
24014 <i>D 2815</i>	-Pasito Blanco, dike, head.	27° 45.0' N 15° 37.0' W	F.R.	30 9	3	Red metal post.	
24014.2 <i>D 2815.2</i>	--Spur.	27° 44.7' N 15° 37.2' W	Q.(2)R. period 4s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 2.5s	13 4	3	Red metal post; 10.	
24014.4 <i>D 2815.22</i>	--End of slipway jetty.	27° 44.7' N 15° 37.2' W	Fl.G. period 3s fl. 0.5s, ec. 2.5s	13 4	3	Green metal post; 10.	
24016 <i>D 2815.4</i>	-Puerto Cementero, Dique Rompeolas, head.	27° 45.0' N 15° 40.3' W	Q.(2)R. period 6s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 4.5s	39 12	6	Round post, red and white bands; 16.	
24020 <i>D 2815.45</i>	--Mulle No. "2".	27° 44.9' N 15° 40.2' W	Fl.(4)G. period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 3s	33 10	4	Metal platform; 13.	
24022 <i>D 2815.7</i>	-Puerto Rico, end of W. dike.	27° 46.8' N 15° 42.6' W	Q.(2)R. period 4s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 2.5s	36 11	4	Red round masonry tower; 13.	
24022.2 <i>D 2815.6</i>	---Breakwater.	27° 46.8' N 15° 42.5' W	F.G.	13 4	4	Round masonry tower; 10.	
24022.4 <i>D 2815.82</i>	--Puerto de Escala, W. dike.	27° 46.9' N 15° 42.7' W	F.R.	36 11	4	Red round masonry tower; 13.	
24022.6 <i>D 2815.8</i>	---End of protection jetty.	27° 46.9' N 15° 42.7' W	Fl.G. period 3s fl. 0.4s, ec. 2.6s	20 6	4	Green round masonry tower; 13.	
24023 <i>D 2815.96</i>	-Puerto de Mogan, S. dique, head.	27° 48.9' N 15° 45.7' W	Fl.(3)R. period 8.5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5s	43 13	3	Trapezoidal tower, red and white bands; 20.	
24023.5 <i>D 2815.98</i>	--Muelle No. "2", head.	27° 48.9' N 15° 45.7' W	Fl.(2)G. period 7s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5s	10 3	4	Trapezoidal tower, green and white bands; 7.	
24023.7 <i>D 2815.94</i>	-Punta del Castillete.	27° 49.1' N 15° 46.0' W	Fl.W. period 5s fl. 1s, ec. 4s	374 114	17	Square tower.	
ISLA DE FUERTEVENTURA:							
24024 <i>D 2790</i>	-Punta Jandia.	28° 03.0' N 14° 31.0' W	Fl.W. period 4s fl. 0.5s, ec. 3.5s	108 33	22	Gray conical tower, dwelling; 62.	Visible 276°-190°.

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ISLAS CANARIAS (CANARY ISLANDS) (S.)							
24026 D 2791	-Punta Pesebre.	28° 06.5' N 14° 29.4' W	Oc.(2)W. period 6s fl. 3s, ec. 1s fl. 1s, ec. 1s	33 10	10	White and gray tower; 16.	
24027 D 2796.5	-Puerto de Morro Jable.	28° 02.7' N 14° 19.7' W	Fl.(2)W. period 10s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 7.7s	203 62	20	White round tower; 194.	
24028	-Muelle extremity.	28° 12.0' N 14° 01.0' W	Fl.R. period 3s fl. 0.3s, ec. 2.7s	29 9	3	Red metallic tower; 19.	
24032 D 2795	-Punta Lantailla.	28° 13.0' N 13° 56.0' W	Fl.(2+1)W. period 18s fl. 0.4s, ec. 1.2s fl. 0.4s, ec. 7.8s fl. 0.4s, ec. 7.8s	643 196	21	Tower on building; 39.	Obscured shore-228°. Radiobeacon.
24033 D 2796.1	-Punto Gran Tarajal, W. side.	28° 12.4' N 14° 01.5' W	Fl.(3)R. period 7s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3.5s	30 9	5	Red tower; 23.	
24033.5 D 2796	--E. side.	28° 12.4' N 14° 01.4' W	Fl.(3)G. period 7s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3.5s	30 9	5	Green tower; 23.	
24034 D 2793.5	-Punta Gaviota.	28° 30.2' N 13° 50.5' W	Fl.W. period 5s fl. 0.5s, ec. 4.5s	157 48	20	White round tower; 141.	
24036 D 2794	-Puerto del Rosario, pier, head.	28° 29.5' N 13° 51.2' W	Fl.G. period 5s fl. 0.5s, ec. 4.5s	43 13	6	Green round tower; 16.	
24037 D 2794.2	--Contradique, head.	28° 29.6' N 13° 51.4' W	Fl.(2)R. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	20 6	4	Red round masonry tower.	
24040 D 2792	-Toston, on Punta del Toston, NW. side of island.	28° 42.8' N 14° 00.8' W	Fl.W. period 8s fl. 1s, ec. 7s	115 35	14	White tower, red bands; 98.	
24042 D 2793	Puerto de Corralejo.	28° 44.4' N 13° 51.6' W	Fl.G. period 3s fl. 0.3s, ec. 2.7s	30 9	4	Gray round tower.	
24044 D 2786	Isla de Lobos, Punta Martino, of NE. side of Isla de Fuerteventura.	28° 46.0' N 13° 48.8' W	Fl.(2)W. period 15s fl. 1s, ec. 3s fl. 1s, ec. 10s	95 29	14	Yellow conical tower, white octagonal lantern; 21.	Visible 083°-353°.
ISLA DE LANZAROTE:							
24048 D 2782	-Punta Pechiguera.	28° 51.2' N 13° 52.2' W	Fl.(3)W. period 30s fl. 0.2s, ec. 3.5s fl. 0.2s, ec. 3.5s fl. 0.2s, ec. 22.4s	180 55	17	White round tower; 164.	
24050 D 2781	-Puerto Calero, S. mole, head.	28° 54.9' N 13° 42.3' W	Fl.(3)G. period 14s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 7s	30 9	6	Gray octagonal tower; 13.	Fl.(4)R. 11s 5M marks N. mole head.
24052 D 2780	-Puerto de Arrecife.	28° 57.1' N 13° 32.8' W	Q.(6)+L.Fl.W. period 15s	33 10	8	S. CARDINAL YB, tower, topmark; 19.	

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ISLAS CANARIAS (CANARY ISLANDS) (S.)							
24053 D 2777	-Puerto de Naos, mole, head.	28° 58.0' N 13° 31.9' W	Fl.R. period 10s fl. 1s, ec. 9s	36 11	4	Red round tower; 13.	
24053.2 D 2778	--Muelle Pesquero, NE. end.	28° 58.0' N 13° 32.1' W	Fl.(4)G. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 8.5s	26 8	3	Green round tower; 13.	
24053.4 D 2778.2	--Arrecife de la Raya.	28° 58.0' N 13° 32.1' W	Fl.(3)G. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	26 8	3	Green round tower; 13.	
24053.6 D 2778.4	---S. end.	28° 57.8' N 13° 32.3' W	Fl.G. period 6s fl. 1s, ec. 5s	26 8	3	Green round tower; 13.	
24053.8 D 2778.6	--Muelle de Reparaciones, N. corner.	28° 57.7' N 13° 32.2' W	Fl.(2)R. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	26 8	3	Red round tower; 13.	
24056 D 2775	-Puerto de Los Marmoles, Punta Chica, pier, head.	28° 57.8' N 13° 31.6' W	Q.(3)G. period 10s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 7.5s	39 12	6	Green round tower; 19.	
24064	--NE. elbow.	0° 00.0' N 0° 00.0' W	Iso.R. period 7s	16 5	4	Red and white banded structure; 10.	
24076 D 2772	Isla de Aleganza, Punta Delgada.	29° 24.0' N 13° 29.0' W	Fl.W. period 3s fl. 0.3s, ec. 2.7s	56 17	12	Dark gray conical tower, white lantern; 49.	Visible 135°-045°.

All lights under Spanish control are lighted a quarter of an hour after sunset and extinguished a quarter of an hour before sunrise, except as noted under "Remarks."

ARQUIPELAGO DE CABO VERDE (CAPE VERDE ISLANDS)							
ILHA DE SANTO ANTAO:							
24080 D 2950	-Ponta de Tumbo.	17° 07.0' N 24° 58.0' W	Fl.(4)W. period 20s	531 162	17	White octagonal masonry tower, dwelling; 52.	Visible 141°-321°.
24084 D 2956	Porto Navo, N. pier, head.	17° 01.2' N 25° 03.8' W	Iso.G. period 4s	43 13	9	Round hut; 18.	
24088 D 2952	-Ponta do Sol, N. point of island.	17° 12.8' N 25° 05.7' W	Fl.W. period 4s	49 15	9	Metal mast with lantern; 33.	Visible 110°-250°.
24092 D 2954	-Ponta de Mangrade (Ponta Oeste).	17° 03.4' N 25° 21.8' W	Fl.(2)W. period 10s fl. 0.4s, ec. 1.6s fl. 0.4s, ec. 7.6s	367 112	13	White column, red lantern; 10.	Visible 005°-200°.
ILHA DE SAO VICENTE:							
24096 D 2946	-Ponta Machado.	16° 50.0' N 25° 05.0' W	Fl.W. period 5s fl. 0.2s, ec. 4.8s	184 56	17	White square masonry tower, dwelling; 46.	Visible 302°-172°.
24100 D 2942	-Ilheu do Passaros (D. Luiz), Porto Grande entrance.	16° 54.6' N 25° 00.7' W	Fl.(3)W. period 12s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 5s	282 86	14	White truncated hexagonal pyramid, red lantern; 16.	Obscured 258°-057° and 091°-196°. Signal station.
24104 D 2943	-Cabnave.	16° 53.9' N 25° 00.3' W	Fl.R. period 2s	26 8	8	Metal mast, square balcony; 13.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ARQUIPELAGO DE CABO VERDE (CAPE VERDE ISLANDS)							
24108 <i>D 2944</i>	--"Molhe 2", head.	16° 53.0' N 25° 00.0' W	Fl.R. period 4s	33 10	6	Round column with gallery; 26.	
24112 <i>D 2944.4</i>	--"Molhe 1", head.	16° 53.3' N 24° 59.9' W	Fl.G. period 3s fl. 1s, ec. 2s	33 10	5	Round column with gallery; 26.	
-Porto Grande:							
24116 <i>D 2943.4</i>	--Gale Range, front.	16° 52.4' N 25° 00.7' W	F.G.	42 13	5		Occasional.
24120 <i>D 2943.41</i>	---Rear, 980 meters 147° from front.	16° 52.0' N 25° 00.0' W	F.G.	62 19	5		Occasional.
24124 <i>D 2943.6</i>	--Comando Naval Range, front.	16° 53.3' N 24° 59.8' W	F.R.	65 20	5		Occasional.
24128 <i>D 2943.61</i>	---Rear, 530 meters 075°36' from front.	16° 53.3' N 24° 59.5' W	F.R.	89 27	5		Occasional.
ILHA DE SAO NICOLAU:							
24132 <i>D 2934</i>	-Ponta do Barril.	16° 36.2' N 24° 25.7' W	Fl.(3)W. period 12s	39 12	15	White quadrangular tower near dwelling; 30.	Visible 320°-150°.
24136 <i>D 2936</i>	-Preguica (Porto Velho).	16° 33.7' N 24° 17.1' W	Fl.(2+1)R. period 15s	82 25	5	Gray iron hut, masonry base; 23.	Visible 285°-016°.
24144 <i>D 2930</i>	-Ponta Calheta.	16° 34.0' N 24° 00.0' W	Fl.(4)W. period 10s	239 73	11	White truncated iron quadrangular pyramidal tower, red lantern, concrete base; 14.	Visible 140°-030°.
ILHA DO SAL:							
24148 <i>D 2921</i>	-Baia da Palmeira Range, front.	16° 45.0' N 22° 59.0' W	Fl.W. period 3.5s fl. 1s, ec. 1.5s	30 9	5	Red post; 23.	Marks oil pipeline.
24152 <i>D 2921.1</i>	--Rear, 95 meters 044° from front.	16° 45.0' N 22° 59.0' W	Fl.W. period 3.5s fl. 1s, ec. 2s	49 15	3	Red post; 36.	
24156 <i>D 2920</i>	-Casa Valente Range, front.	16° 45.0' N 22° 59.0' W	F.R.	27 8	5		Shown on request of tankers anchoring at night.
24160 <i>D 2920.1</i>	--Rear, 435 meters 064° from front.	16° 45.2' N 22° 58.5' W	F.R.	43 13	5		
24164 <i>D 2922</i>	-Ponta do Sino, 300 meters within extremity.	16° 35.0' N 22° 55.0' W	F.W.	35 11	5	Gray square tower; 30.	Visible 300°-142°.
24168 <i>D 2922.5</i>	-Ponta da Vera Cruz, Porto de Santa Maria.	16° 36.0' N 22° 54.0' W	F.R.	17 5	3	White framework tower; 13.	Visible 300°-049°.
24172 <i>D 2925</i>	-Monte Curral AVIATION LIGHT, N. of Runway.	16° 44.0' N 22° 57.0' W	Al.Fl.W.G. period 7.5s	272 83	26		Range lights are shown in Porto Pedro de Luna. Occasional. Aero Radiobeacon about 2 miles S.
24176 <i>D 2923</i>	-Porto da Pedra de Lume Range, front.	16° 46.0' N 22° 54.0' W	F.R.	29 9	1	Black chimney, white bands; 23.	Occasional. Private light.
24180 <i>D 2923.1</i>	--Rear, 115 meters 349° from front.	16° 45.8' N 22° 53.9' W	F.R.	42 13	1	White chapel, black bands on E. side; 26.	Occasional. Private light.
24184 <i>D 2923.2</i>	-Range, front.	16° 45.5' N 22° 54.1' W	F.G.	46 14	2	Truncated pyramid; 10.	Occasional. Private light.
24188 <i>D 2923.3</i>	--Rear, 215 meters 306° from front.	16° 45.6' N 22° 54.2' W	F.W.	69 21	2	Framework tower on house; 23.	Occasional. Private light.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ARQUIPELAGO DE CABO VERDE (CAPE VERDE ISLANDS)							
ILHA DA BOA VISTA:							
24192 <i>D 2918</i>	-Velho, on Ponta da Escuma.	16° 10.3' N 22° 56.0' W	Fl.(5)W.R. period 20s	92 28	11	Metal mast with lantern; 26.	W. 220°-355°, R.-220°.
24193 <i>D 2919</i>	--Ponte Cais.	16° 10.4' N 22° 57.2' W	Fl.(3)R. period 12s	26 8	5	Red tower; 20.	
24196 <i>D 2914</i>	-Morro Negro.	16° 06.1' N 22° 40.9' W	Fl.W. period 20s	535 163	31	Small white quadrangular concrete tower on dwelling; 39.	Visible 163°-035°.
24197 <i>D 2916</i>	-Ponte Varandinha.	16° 02.6' N 22° 58.2' W	Fl.(2)W. period 6s	72 22	10	Structure with lantern; 23.	Visible 310°-194°. Radar reflector.
	-RACON		V(•••-) period 30s		24		
24198 <i>D 2919.5</i>	Ponta do Sol.	16° 13.7' N 22° 55.1' W	Fl.(4)W. period 15s	384 117	12	Metal tower; 23.	Visible 017°-272°.
ILHA DE MAIO:							
24200 <i>D 2872</i>	-Forte de S. Jose, Porto do Maio.	15° 08.0' N 23° 13.0' W	Fl.(3)R. period 12s	72 22	9	Wooden platform, on top of fort tower.	Visible 349°-090°.
24202 <i>D 2874</i>	-Ponta Cais.	15° 20.0' N 23° 11.0' W	Fl.W. period 7s fl. 0.3s, ec. 6.7s	46 14	10	Metal tower with lantern; 23.	Visible 038°-292°. Radar reflector.
	-RACON		M(- -)				
ILHA DE SAO TIAGO:							
24204 <i>D 2876</i>	-Maria Pia Ponta Temerosa, SE. side.	14° 54.0' N 23° 31.0' W	Fl.(2)W. period 6s	82 25	10	White octagonal masonry tower; 69.	
24208 <i>D 2881</i>	-Cais Novo, breakwater, head.	14° 54.3' N 23° 30.6' W	Fl.G. period 4s	33 10	5	Round concrete structure with lantern; 16.	
24220 <i>D 2882</i>	Ponta do Lobo, near E. extremity of island.	14° 59.0' N 23° 26.0' W	Fl.(4)W. period 15s	56 17	9	Trapezoidal tower near dwelling; 30.	Visible 190°-335°.
24222	Mosquito.	14° 56.9' N 23° 41.8' W	Fl.(2)W.R.G. period 6s		5		
PONTA DO LOBO:							
24224 <i>D 2888</i>	-Ponta Moreira, N. end of island.	15° 20.1' N 23° 45.2' W	Fl.(5)W. period 20s	315 96	9	White iron quadrangular hut, red lantern; 13.	Visible 055°-275°. Radiobeacon.
24228 <i>D 2890</i>	-Ponta Preta, NW. side of entrance to Baia do Tarrafal.	15° 17.0' N 23° 47.0' W	Fl.(3)W. period 12s	109 33	5	White hut, support, masonry base; 20.	F.R. 2M shown from Tarrafal Pier head.
24232 <i>D 2884</i>	-Ribeira de Barca.	15° 07.0' N 23° 46.0' W	Fl.(3)W.R.G. period 12s	19 6	5	Red iron structure; 10.	Visible 080°-121°.
ILHA BRAVA:							
24236 <i>D 2908</i>	-Ponta Jalunga, entrance to Porto da Furna.	14° 53.0' N 24° 41.0' W	Fl.(2+1)W. period 15s	77 23	5	Gray lantern on white masonry column; 26.	Visible 187°-007°. F.R. shown at Furna.
24240 <i>D 2910</i>	-Ponta Nho Martinho.	14° 48.0' N 24° 43.0' W	Fl.(4)W. period 15s	95 29	9	White square tower, red lantern; 13.	Visible 237°-106°30'.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ARQUIPELAGO DE CABO VERDE (CAPE VERDE ISLANDS)							

ILHA DO FOGO:

24244 <i>D 2901</i>	-Mosteiros, above port.	15° 02.0' N 24° 20.0' W	Fl.(3)W.R. period 12s	36 11	5	Column, on quadrangular white truncated pyramid; 10.	
24252 <i>D 2900</i>	-Fortim Carlota, Puerto de Sao Felipe.	14° 54.0' N 24° 31.0' W	Fl.(5)R. period 20s	119 36	5	Red iron post on wall of fort; 13.	
24256 <i>D 2898</i>	-Ponta do Alcatraz.	14° 50.0' N 24° 19.0' W	Fl.W. period 4s fl. 0.5s, ec. 4.5s	443 135	10	Column, red lantern; 10	Visible 225°-045°.
24260 <i>D 2904</i>	Ilheu de Cima.	14° 57.0' N 24° 38.0' W	Fl.(3)W. period 12s	262 80	9	White quadrangular hut, white lantern; 13.	Obscured 252°-304° and 010°-047°.

Section 17

West Coast of Africa and Islands of The Eastern North Atlantic

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
WESTERN SAHARA							
24264 <i>D 2621</i>	El Aaiun AVIATION LIGHT.	27° 10.0' N 13° 13.0' W	Al.FI.W.G. period 12s				
EL AAIUN ANCHORAGE:							
24268 <i>D 2622</i>	-Jetty, head.	27° 05.7' N 13° 26.2' W	Fl.W.				
24276 <i>D 2623</i>	-Ore loader, on silo.	27° 04.0' N 13° 28.0' W	Fl.W. period 5s fl. 1s, ec. 4s	151 46	18	Silo.	Nautophone.
24280 <i>D 2623.2</i>	--At T-head.	27° 04.0' N 13° 28.0' W	F.W.			Middle of platform.	F.Or. lights mark length of pier.
			F.G.	53 16	3	North extremity of pier, green and white banded pole.	
			F.R.	53 16	3	South extremity of pier, red and white banded pole.	
24288 <i>D 2626</i>	El Cabino.	26° 26.0' N 14° 11.0' W	Fl.(3)W. period 12s fl. 0.4s, ec. 2.6s fl. 0.4s, ec. 2.6s fl. 0.4s, ec. 5.6s	121 37	9	Black and white tower; 105.	
24292 <i>D 2628</i>	Cabo Bojador.	26° 07.0' N 14° 29.0' W	Fl.(3)W. period 15s	230 70	24	Tower, black stripe; 148.	
24296 <i>D 2628.2</i>	-W. extremity.	26° 07.0' N 14° 30.0' W	Fl.R. period 5s fl. 1s, ec. 4s	30 9	5	Triangular stone pyramid; 20.	
24300 <i>D 2630</i>	Punta del Corral.	25° 35.0' N 14° 41.0' W	Fl.(2)W. period 9s fl. 0.4s, ec. 2.6s fl. 0.4s, ec. 5.6s	230 70	9	Black and white tower; 36.	
24304 <i>D 2631</i>	Pena Grande.	25° 06.0' N 14° 50.0' W	Fl.(4)W. period 15s fl. 0.4s, ec. 2.6s fl. 0.4s, ec. 2.6s fl. 0.4s, ec. 2.6s fl. 0.4s, ec. 5.6s	568 173	9	Black and white tower; 36.	
RIO DE ORO PENINSULA:							
24308 <i>D 2972</i>	-Arcipres Grande.	23° 43.0' N 15° 57.0' W	Fl.W. period 5s fl. 0.4s, ec. 4.6s	249 76	21	Round tower, black and white bands; 164.	
24312 <i>D 2974.2</i>	-Villa Cisneros, Muelle Transversal No. "3", head.	23° 41.8' N 15° 55.2' W	Q.(3)G. period 6s fl. 0.4s, ec. 0.4s fl. 0.4s, ec. 0.4s fl. 0.4s, ec. 4s	28 9	4	Gray truncated conical tower; 16.	
24316 <i>D 2973</i>	-Punta Galera, SE. point of Punta Durnford.	23° 38.0' N 16° 00.0' W	Fl.(2)W. period 6s	40 12	8	White square castellated tower; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
WESTERN SAHARA							
BAHIA DE ANGRA DE CINTRA:							
24320 <i>D 2975</i>	-N. point of entrance (Puntilla Raimés).	23° 05.0' N 16° 12.0' W	Fl.(4)W. period 10s fl. 0.3s, ec. 1s fl. 0.3s, ec. 1s fl. 0.3s, ec. 1s fl. 0.3s, ec. 5.8s	43 13	8	Hexagonal masonry tower; 33.	
24324 <i>D 2975.2</i>	-Entrance Range, front.	23° 02.3' N 16° 06.5' W	Fl.W. period 5s fl. 0.3s, ec. 4.7s	36 11	8	Square masonry tower; 20.	
24328 <i>D 2975.3</i>	--Rear, 686 meters 090° from front.	23° 02.2' N 16° 05.9' W	Iso.W. period 4s	166 51	9	Square masonry tower; 20.	Visible on range line.
24332 <i>D 2975.6</i>	Cap Bardas.	22° 18.0' N 16° 41.0' W	Fl.(3)W. period 12s fl. 0.4s, ec. 2.6s fl. 0.4s, ec. 2.6s fl. 0.4s, ec. 5.6s	184 56	9	Black and white banded cylindrical tower; 131.	
24336 <i>D 2976</i>	Punta Guera, at S. extremity of Peninsula de Cabo Blanco.	20° 50.0' N 17° 06.0' W	Fl.R. period 5s fl. 0.3s, ec. 4.7s	43 13	8	White quadrangular tower; 19.	Visible 267°-177°.
MAURITANIA							
24340 <i>D 2977</i>	Cap Blanc.	20° 46.0' N 17° 03.0' W	Fl.W. period 5s fl. 0.2s, ec. 4.8s	141 43	17	Octagonal tower, black and white bands; 66.	
BAIE DU LEVRIER:							
24344 <i>D 2977.5</i>	-Entrance Whistle Buoy "O".	20° 39.2' N 17° 04.5' W	L.Fl.W. period 7s fl. 3s, ec. 4s			SAFE WATER RW, pillar, topmark.	Whistle. Radar reflector.
-RACON B(-•••)							
24348 <i>D 2978</i>	-Point Central, wharf.	20° 49.0' N 17° 02.0' W	F.R.				
24352 <i>D 2978.4</i>	-Wharf, N. extremity.	20° 50.0' N 17° 02.0' W	F.R.				F.Vi. on dolphins N. and S. of wharf.
24356 <i>D 2978.5</i>	--Wharf, S. extremity.	20° 50.0' N 17° 02.0' W	F.R.				
24360 <i>D 2979</i>	-Pointe de Cansado.	20° 51.0' N 17° 02.0' W	Q.W.R.	66 20	W. 11 R. 8	Red building.	R. 300°-358°, W.-300°.
24364 <i>D 2980</i>	-Nouadhibou, close to Pointe Chacal.	20° 54.0' N 17° 04.0' W	Iso.W.R.G. period 4s	66 20	W. 11 R. 8 G. 8	White octagonal tower with black stripes; 39.	G. 212°-286°, W.-292°, R.-360°, obsc.-212°.
24368 <i>D 2982</i>	--AVIATION LIGHT.	20° 55.0' N 17° 03.0' W	Fl.(2)W. period 15s fl. 0.3s, ec. 2s fl. 0.3s, ec. 12.4s	20 6		White blockhouse.	
24372 <i>D 2984</i>	Nouakchott, wharf, head.	18° 02.0' N 16° 02.0' W	Oc.W. period 4s lt. 3s, ec. 1s	49 15	12	White tower, black top; 33.	Aero Radiobeacon 4.3 miles NE.
24373 <i>D 2986</i>	Approach light.	17° 59.6' N 16° 01.0' W	Iso.W. period 10s	121 37	16	White tower, black bands, red top.	
24374 <i>D 2986.5</i>	-S. mole, head.	17° 59.2' N 16° 02.3' W	L.Fl.W. period 5s	49 15	5	White mast; 33.	2 Iso.Y. in line 085° mark entrance.
24376	-Approach buoy; 0.9 km. W. of light.	0° 00.0' N 0° 00.0' W	Oc.(2)R.			Beacon type red buoy, red can topmark.	Radar reflector.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SENEGAL							
24380 <i>D 2996</i>	Saint-Louis, Guet N'Dar.	16° 01.5' N 16° 30.7' W	Fl.(2)W. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	49 15	12	Pylon, painted white with red top; 46.	Horn: 2 bl. ev. 20s. Aero Radiobeacon 3.5 miles ENE.
24384 <i>D 2998</i>	St. Louis Grandiole, near pilot station.	15° 54.0' N 16° 31.0' W	Oc.(3)W. period 12s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	85 26	10	Tower, white and black bands.	The Senegal River is marked by several R. and G. lights.
PRESQU'ILE DU CAP VERT:							
24388 <i>D 3002</i>	-Chausse des Almadies, on reef E. of Pte. da Almadies.	14° 44.6' N 17° 32.6' W	Fl.(2)W. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	46 14	9	Tower, black and white bands; 56.	
24392 <i>D 3004</i>	-Cap Vert.	14° 43.4' N 17° 30.2' W	Fl.W. period 5s fl. 0.2s, ec. 4.8s	394 120	31	White tower and house; 52.	May be confused with Cap Manuel Light in hazy weather. Signal station. Aero Radiobeacon 1.5 miles ESE.
24396 <i>D 3008</i>	-Cap Manuel.	14° 39.0' N 17° 26.0' W	Fl.R. period 5s fl. 0.3s, ec. 4.7s	164 50	19	White square tower on dwelling, red pillars; 55.	Partially obscured by Iles de la Madeleine and de la Goree, respectively, 096°-102° and 242°-246°30'.
24400 <i>D 3008.2</i>	--Close SE.	14° 39.0' N 17° 26.0' W	F.W.R.	157 48	W. 11 R. 8	Square white tower; 39.	R. 083°-128°, obsc.-204°, R.- 254°, W.-083°. Partially obscured in same sectors as Cap Manuel Light.
DAKAR:							
24404 <i>D 3010</i>	-Ile de Goree, S. end.	14° 39.8' N 17° 23.9' W	Oc.(2)W.R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	69 21	W. 12 R. 8	White square tower, red top; 13.	W. 207°-062°, R.-087°.
24408 <i>D 3012</i>	-N. breakwater, head.	14° 40.7' N 17° 25.3' W	Iso.G. period 4s	30 9	8	White round tower, green top; 30.	
24412 <i>D 3013</i>	-Jetee du Sud, S. jetty, head.	14° 41.0' N 17° 25.0' W	Oc.(4)R. period 12s lt. 5s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s	36 11	8	White round tower, red top; 30.	F.R. on power station 1.2 miles NNW.
24440 <i>D 3018</i>	Rufisque, N. side of Baie de Goree.	14° 42.6' N 17° 17.0' W	Iso.G. period 2s	39 12	11	Black metal framework tower; 39.	F.R. lights on radio masts 2.7 miles N.
24444 <i>D 3019</i>	Joal.	14° 09.0' N 16° 50.0' W	Oc.W. period 4s lt. 3s, ec. 1s	46 14	11	Red and white banded pylon; 43.	
24448	Riviere Saloum, <i>Entrance Whistle Buoy.</i>	13° 50.0' N 16° 50.0' W	Fl.W. period 4s fl. 1s, ec. 3s			Buoy, red and white stripes.	Radar reflector.
THE GAMBIA							
24452 <i>D 3021</i>	Cape St. Mary.	13° 28.0' N 16° 42.0' W	Fl.(2)W. period 10s	140 43	15	Water tower.	
RACON		B(---)					

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
THE GAMBIA							
24464 <i>D 3027</i>	Barra Point, NW. corner of fort.	13° 29.0' N 16° 34.0' W	Fl.(3)R. period 15s	59 18	10	Metal framework tower.	Visible 315°-215°. 3 F.R. on radio tower 4.6 km. SSW., 2 F.R. on radio masts 4.58 km. SW.
	RACON		Q(---)				
24465 <i>D 3027.5</i>	Banjul Point.	13° 27.3' N 16° 34.4' W	Iso.W. period 8s	89 27	10	Metal framework tower.	Visible 125°-003°.
	RACON		B(---)				
24468 <i>D 3030</i>	-Fort James Island.	13° 19.0' N 16° 22.0' W	Fl.W. period 14.5s	26 8		White steel framework structure; 21.	
SENEGAL							
24476 <i>D 3038</i>	-Pointe de Diogue.	12° 34.0' N 16° 45.0' W	Q.W.	69 21	8	Pylon with 2 rectangular daymarks, upper part black, lower part white; 60.	Signal station.
	RIO CACHEU:						
24484 <i>D 3042</i>	-Cabo Mata.	12° 10.0' N 16° 19.0' W	Fl.(3)W. period 15s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 10s	36 11	9	White cylindrical iron tower on two superimposed pyramids; 43.	
24492 <i>D 3044</i>	-Cacheu (Baluarte de San Fernando).	12° 17.0' N 16° 10.0' W	Fl.(2)W. period 10s fl. 1s, ec. 1s fl. 1s, ec. 7s	33 10	9	White cylindrical tower.	
	RIO GEBA:						
24500 <i>D 3050</i>	-Caio.	11° 50.2' N 16° 19.3' W	Fl.(2)W. period 10s fl. 0.7s, ec. 0.3s fl. 0.7s, ec. 8.3s	138 42	16	White cylindrical stone tower, black bands.	
	-RACON.		B(---) period 60s				
24504 <i>D 3052</i>	-Ilha de Jeta, SE. extremity.	11° 50.3' N 16° 13.9' W	Fl.W. period 5s fl. 1s, ec. 4s	30 9	9	White cylindrical masonry tower, square base.	
24506 <i>D 3053</i>	-Baixos de Rio Grande.	11° 38.2' N 16° 35.2' W	Fl.(3)W. period 15s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 10s	33 10	12	White metal column.	
24508 <i>D 3054</i>	-Ponta Arlete, N. side of channel.	11° 45.5' N 16° 05.5' W	Fl.(3)W. period 15s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 10s	43 13	9	White cylindrical masonry tower; 20.	
24512 <i>D 3056</i>	-Ponta Biombo, N. side of channel.	11° 44.0' N 15° 57.2' W	Fl.W. period 5s fl. 1s, ec. 4s	43 13	9	White square masonry tower; 42.	
24520 <i>D 3057</i>	-Ponta Bernafel.	11° 47.5' N 15° 39.2' W	Fl.(3)W. period 15s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 10s	26 8	9	White tower; 26.	
24524 <i>D 3058</i>	-Ilheu dos Passaros, near Canal do Geba.	11° 49.3' N 15° 35.5' W	Fl.W. period 5s fl. 1s, ec. 4s	66 20	9	White square masonry tower; 42.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SENEGAL							
24532 <i>D 3062</i>	-Ilheu do Rei.	11° 51.1' N 15° 33.9' W	Fl.(2)G. period 10s fl. 1s, ec. 1s fl. 1s, ec. 7s	39 12	6	White cylindrical tower on quadrangular pyramidal skeleton structure; 20.	
24540 <i>D 3060</i>	--Entrance Range, front, Port Office.	11° 51.4' N 15° 34.9' W	L.Fl.G. period 7s	43 13	4	Metal white quadrangular tower.	
24544 <i>D 3060.1</i>	---Rear, about 320 meters 346° from front.	11° 51.6' N 15° 35.0' W	L.Fl.G. period 7s	118 36	4	N. tower of cathedral.	
24552 <i>D 3064</i>	-Pedro Alvarez, W. side of Canal de Pedro Alvarez.	11° 38.1' N 15° 41.8' W	Fl.W. period 5s fl. 1s, ec. 4s	36 11	9	Square white masonry tower, gallery.	Radar reflector.
ARQUIPELAGO DOS BIJAGOS:							
24556 <i>D 3065</i>	-Ilha Galinhas, on NE. extremity.	11° 30.5' N 15° 39.4' W	Fl.(3)W. period 15s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 10s	30 9	9	White square tower; 26.	
-Porto do Bolama:							
24564 <i>D 3070</i>	--Porto Preco Leve.	11° 33.3' N 15° 27.9' W	Fl.W. period 5s fl. 1s, ec. 4s	23 7	9	White cylindrical tower, square base.	
24565 <i>D 3071</i>	--Bolama, N. pier.	11° 34.6' N 15° 28.5' W	Fl.W. period 3s	19 6			
24568 <i>D 3072</i>	--Ponta Colonia.	11° 32.2' N 15° 25.8' W	Fl.(2)W. period 10s fl. 1s, ec. 1s fl. 1s, ec. 7s	56 17	9	White square masonry tower; 39.	
24576 <i>D 3074</i>	-Ilha das Cobras, N. point.	11° 38.5' N 15° 28.7' W	Fl.W. period 5s fl. 1s, ec. 4s	43 13	9	White column on white stone tower; 33.	
24580 <i>D 3078</i>	-Bubaque.	11° 18.1' N 15° 50.2' W	Fl.R. period 5s fl. 1s, ec. 4s	26 8	7	Black column.	F.R. on radio mast 127 meters S.
24588 <i>D 3081</i>	-Ilha Roxa, Ponta Barel.	11° 14.0' N 15° 39.8' W	Fl.(3)W. period 15s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 10s	85 26	9	White square masonry tower, red cross on E. side; 46.	
24596 <i>D 3080</i>	-Ilheu do Poilao.	10° 51.8' N 15° 43.3' W	Fl.(3)W. period 15s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 10s	89 27	9	Metal framework tower, white triangular daymark.	
GUINEA							
RIO NUNEZ:							
24600 <i>D 3084</i>	-Victoria.	10° 49.0' N 14° 34.0' W	Fl.W. period 6s fl. 1.5s, ec. 4.5s	46 14	6	White pillar on platform.	
24604 <i>D 3086</i>	-Port Kamsar Range, front.	10° 39.0' N 14° 37.0' W	F.R.				
24608 <i>D 3086.1</i>	--Rear, 097° from front.	10° 39.1' N 14° 37.0' W	F.R.				

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GUINEA							
24612 <i>D 3087</i>	Cap Gonzalez.	10° 24.3' N 14° 41.5' W	Fl.(3)W. period 15s	33 10	15	Sheltered pillar.	
	RACON		G(— — •)		15		
24616 <i>D 3088</i>	Cap Verga.	10° 15.0' N 14° 26.0' W	Fl.(2)W. period 10s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 7.3s	394 120	20	Metal mast; 33.	Reserve light range 18M. Radiobeacon.
24618	Rio Nunez Approach Buoy "3".	10° 09.5' N 15° 12.0' W	Fl.(4)W. period 15s			Red buoy.	
	RACON		S(•••)		10		
24620 <i>D 3090</i>	Ile Tamara.	9° 28.0' N 13° 50.0' W	Fl.W. period 5s	311 95	26	White circular tower; 20.	Visible 220°-235° and 283°-161°.
	CONAKRY:						
24636 <i>D 3093</i>	-Boulbinet, on reef, SW. side of city.	9° 30.0' N 13° 43.0' W	Oc.(2)W.R. period 12s	43 13	W. 13 R. 10	White tower; 39.	W. 108°-112°, R.-315°, W.-015°, R.-108°.
24640 <i>D 3094</i>	-Dique de la Prudente.	9° 30.8' N 13° 43.7' W	V.Q.(6)+L.Fl.W. period 10s	43 13	7	S. CARDINAL YB, pylon.	
24648 <i>D 3096</i>	Ile Matakong, summit, N. side of Riviere Florikaria entrance.	9° 16.0' N 13° 26.0' W	Iso.W. period 4s	69 21	6	White tower; 39.	
24652 <i>D 3097</i>	Melikhore Buoy.	9° 05.0' N 13° 28.0' W	Fl.W. period 5s fl. 0.5s, ec. 4.5s			Red-white striped landfall buoy.	Channel is marked by 17 unlighted buoys. Bell.
SIERRA LEONE							
24656 <i>D 3098</i>	Cape Sierra Leone.	8° 29.9' N 13° 17.8' W	L.Fl.W. period 15s fl. 2s, ec. 13s	62 19	14	White round stone tower, red lantern, on dwelling; 69.	F.R. 3M on water tower 460 meters S. Radiobeacon 0.5 mile E.
			F.R.	49 15	12		Visible 064°-089°.
	FREETOWN:						
24664 <i>D 3098.5</i>	-Ferry Terminal.	8° 29.0' N 13° 14.0' W	F.G.		2		
24668 <i>D 3099</i>	-Falcon Bridge Point.	8° 30.0' N 13° 14.0' W	Iso.W. period 2s	42 13	3	White round metal tower, 2 black bands; 8.	<i>Reported unreliable (1984).</i>
24672 <i>D 3100.2</i>	-Queen Elizabeth II quay, E. end.	8° 29.6' N 13° 12.6' W	Fl.(3)G.	92 28	2	Building.	Iso.R. 3s 2M marks W. end of quay.
24676 <i>D 3101</i>	-Cline Point Range, front.	8° 30.0' N 13° 12.0' W	F.R.	23 7	1	Metal tripod; 16.	
24680 <i>D 3101.1</i>	--Rear, about 42 meters 127° from front.	8° 29.5' N 13° 12.2' W	F.W.	49 15	1	Metal framework tower on building; 39.	
24684 <i>D 3101.4</i>	-Fura, ferry terminal.	8° 29.0' N 13° 12.0' W	Fl.(2)G. period 7s fl. 1s, ec. 2s fl. 1s, ec. 3s	14 4	2	Red metal post, white bands; 8.	
24688 <i>D 3101.6</i>	-Tagrin Point, ferry terminal.	8° 31.0' N 13° 09.0' W	Fl.(2)R. period 7s fl. 1s, ec. 2s fl. 1s, ec. 3s	14 4	2	Red metal posts, white bands; 8.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SIERRA LEONE							
BANANA ISLANDS:							
24692 D 3102	-Meheux Island, SW. extremity.	8° 05.0' N 13° 15.0' W	L.FI.W. period 20s fl. 2.4s, ec. 17.6s	100 30	8	White tower; 12.	Visible 298°-180°.
LIBERIA							
MONROVIA:							
24696 D 3105	-Cape Mesurado.	6° 19.0' N 10° 49.0' W	FI.W. period 6s	279 85	21	White conical masonry tower; 20.	
24700 D 3107	-S. breakwater.	6° 20.8' N 10° 48.9' W	L.FI.G. period 10s fl. 3s, ec. 7s	36 11	4	White framework tower.	
24704 D 3106	-N. breakwater.	6° 21.0' N 10° 48.7' W	FI.R. period 4s	33 10	4	White pylon.	
24708 D 3108	-Entrance Range, front.	6° 20.4' N 10° 47.8' W	F.R.	55 17	11	Metal framework tower.	
24712 D 3108.1	--Rear, 340 meters 120°45' from front.	6° 20.3' N 10° 47.7' W	F.R.	70 21	11	Red and white checkered water tank.	
24716 D 3110.5	King Gray.	6° 15.1' N 10° 41.7' W	F.R.		12		
24720 D 3111	Junk River.	6° 08.0' N 10° 23.0' W	Oc.W. period 5s		15		
24724 D 3112	-Grand Bassa Pt.	5° 52.0' N 10° 04.0' W	Iso.W.R. period 4s	95 29	15	Yellow and orange pylon; 79.	R. 297°-342°, W.-104°, R.-149°.
BUCHANAN:							
24728 D 3112.9	-Range, front.	5° 51.3' N 10° 02.6' W	3 F.Y. (vert.)			Daymark on mast.	Defines north limit of fairway.
24730 D 3113	--Common rear.	5° 51.3' N 10° 02.6' W	3 F.Y. (vert.)			Mast.	On request.
24732 D 3113.1	-Range, front, 103° to common rear.	5° 51.3' N 10° 02.6' W	3 F.Y. (vert.)			Framework tower on dolphin.	On request.
24734 D 3113.3	-Range, front.	0° 00.0' N 0° 00.0' W	3 F.Y. (vert.)			Daymark on mast.	Defines south limit of fairway.
24736 D 3113.31	--Rear.	5° 51.3' N 10° 02.6' W	3 F.Y. (vert.)			Mast.	
24740 D 3112.4	-Main break water, head.	5° 51.0' N 10° 04.0' W	FI.G. period 3s fl. 0.3s, ec. 2.7s	31 9	3	White square concrete tower. Floodlit.	
24744 D 3112.6	-N. breakwater, head.	5° 52.0' N 10° 04.0' W	FI.R. period 3s fl. 0.3s, ec. 2.7s	26 8	3	White square concrete tower. Floodlit.	
24748 D 3113.8	Bafu Bay.	5° 11.0' N 9° 17.0' W	FI.W. period 4s fl. 1s, ec. 3s		12		Obscured on bearings less than 030°.
SINO BAY:							
24752 D 3114	-South Point.	4° 59.0' N 9° 02.0' W	FI.(4)W. period 20s	106 32	23	White square tower; 26.	<i>Reported unreliable.</i>

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
LIBERIA							
24756 D 3115.5	--Breakwater, head.	4° 59.4' N 9° 02.7' W	Fl.G. period 3s	16 5		White building.	
24758 D 3115	-N. Point.	4° 59.6' N 9° 02.6' W	Fl.(2)W.R. period 11s	36 11		Tower; 36.	R. 310°-040°, W.-080°, R.-130°.
24760 D 3116	Cape Palmas.	4° 22.0' N 7° 44.0' W	Fl.(2)W. period 16s fl. 0.3s, ec. 3.7s fl. 0.3s, ec. 11.7s	104 32	24	White conical tower; 72.	
IVORY COAST							
24764 D 3118	Pointe Tafou.	4° 25.0' N 7° 22.0' W	Fl.(3)W. period 15s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 8s	82 25	20	White tower, black band and top; 46.	Visible 110°-200°.
24768 D 3120	San Pedro.	4° 45.0' N 6° 36.0' W	Fl.W. period 4s	348 106	13	Metal tower, red and white bands.	F.R. Aero obstruction lights on 4 corners at top.
24776 D 3120.4	-Entrance Range, front.	4° 44.0' N 6° 37.0' W	Oc.(2)G. period 6s lt. 1s, ec. 1s lt. 1s, ec. 3s	102 31	9	Metal pylon, red and white bands; 82.	Intensified 281°30'-301°30'.
24780 D 3120.41	--Rear, 620 meters 291°30' from front.	4° 44.5' N 6° 37.6' W	Q.G.	184 56	9	Metal pylon, red and white bands; 49.	Intensified 281°30'-301°30'.
24784 D 3120.2	-Jetee Ouest, head.	4° 44.0' N 6° 37.0' W	Fl.(2)W. period 3s	49 15	11	Red metal support on white tower.	V.Q.(3)R. 5s and V.Q.(3)G. 5s 3M mark sides of entrance.
24788 D 3122	Sassandra.	4° 57.0' N 6° 05.0' W	Oc.W. period 4s lt. 3s, ec. 1s	197 60	16	Tower; 23.	Visible over sector 250°.
24792 D 3123	-Mole, head.	4° 57.0' N 6° 04.9' W	Q.W.	33 10	2	White pylon, red band; 13.	A Q.R. light is shown from wharf about 805 meters 045°.
24796 D 3125	Grand Lahau.	5° 08.2' N 5° 01.2' W	Fl.(2+1)W. period 15s	43 13	15	White and red tower.	
	RACON		G(— — •)		15		
	ABIDJAN:						
	-Vridi Channel:						
24802	--Buoy "R".	5° 12.9' N 4° 00.1' W	Mo.(A)W.			SAFE WATER RW, pillar, topmark.	
	--RACON		AN(• — — •)				
24804 D 3128	--S. jetty, head.	5° 14.3' N 4° 00.2' W	Oc.(2)R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	52 16	11	Gray tower, red top; 43.	
24812 D 3129	--N. jetty, head.	5° 14.5' N 4° 00.2' W	Iso.G. period 4s	52 16	11	Gray tower, black top; 39.	Horn: 3 bl. ev. 30s.
24816 D 3130	--Entrance Range, front.	5° 14.6' N 4° 00.7' W	Dir.Oc.R. period 4s lt. 3s, ec. 1s	46 14	18	Red tower, white rectangular daymark, framed by two white triangular beacons, white rectangular daymark; 39.	Intensified 294°30'-299°30'. Several F.R. and F.G. lights mark the channel.
24820 D 3130.1	---Rear, about 430 meters 297° from front.	5° 14.5' N 4° 00.9' W	Dir.Oc.R. period 4s lt. 3s, ec. 1s	59 18	18	White tower, white rectangular daymark, red "V", framed by two white triangular beacons, red and white striped rectangular daymark; 52.	Intensified 294°30'-299°30'. Synchronized with front.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
IVORY COAST							
24824 <i>D 3131</i>	--Second Range, front.	5° 14.8' N 4° 00.9' W	Q.W.	56 17	22	White and black pylon.	
24828 <i>D 3131.1</i>	---Rear, 1.2 km. 304° from front.	5° 15.2' N 4° 01.5' W	Oc.(2)W. period 6s	98 30	23	White and black metal pylon.	
24832 <i>D 3134</i>	-Treitchville quay.	5° 17.7' N 4° 01.7' W	Q.G.	75 23	8		
24836 <i>D 3135</i>	-Treitchville.	5° 17.8' N 4° 01.0' W	Fl.(2+1)G. period 12s	135 41	10	Water tower.	
24840 <i>D 3127</i>	-Port Bouet.	5° 14.5' N 3° 57.5' W	Fl.(3)W. period 14s	112 34	28	Square white tower, black top; 98.	Radiobeacon.
24842 <i>D 8542.2</i>	--Terminal.	5° 15.1' N 3° 57.8' W	V.Q.W.R.				R. 011°-022°, W.-011°.
24843 <i>D 3137.5</i>	-Grand Bassam.	5° 12.0' N 3° 43.9' W	Fl.W. period 5s	105 32	18		
GHANA							
24844 <i>D 3138</i>	Bobwasi Island.	4° 51.0' N 2° 15.0' W	Oc.W.R. period 17s lt. 14s, ec. 3s	79 24	19	White tower, red dome.	W. on bearing S. of 083°, R. elsewhere. <i>Temporarily extinguished (May 1984).</i>
24848 <i>D 3140</i>	Cape Three Points.	4° 45.0' N 2° 06.0' W	Fl.W. period 5s fl. 0.3s, ec. 4.7s	126 38	27	White cylindrical tower, red lantern; 61.	Visible 268°-120°.
TAKORADI BAY:							
24852 <i>D 3145</i>	-Takoradi.	4° 53.0' N 1° 45.0' W	Fl.(2)W. period 3s	163 50	19	White water tower, red lantern.	Visible 220°-070°. A F.R. light is shown from each of three radio masts about 2 km. N. of Takoradi.
24856 <i>D 3146</i>	-Main breakwater, head.	4° 53.2' N 1° 44.0' W	Q.R.	35 11	9	Pylon; 25.	F.R. lights shown from 3 masts 2.8 km. NW.
24860 <i>D 3148</i>	-N. breakwater, head.	4° 53.1' N 1° 44.2' W	F.G.	32 10	9		Bell: 1 stroke ev. 5s.
24864 <i>D 3151</i>	-Cement clinker jetty.	4° 53.0' N 1° 44.0' W	Iso.G. period 4s	35 11	1		
SEKONDI:							
24868 <i>D 3155.1</i>	-Fort Orange.	4° 56.0' N 1° 42.0' W	Oc.(2)W.R. period 30s lt. 21s, ec. 3s lt. 3s, ec. 3s	128 39	19	White tower, red lantern; 46.	W. 181°-000°, R.-046°.
-Naval harbor:							
24872 <i>D 3155</i>	--Main Breakwater, head.	4° 56.0' N 1° 42.0' W	Fl.R. period 3s	30 9	7	Red and white checkered tower.	In line with fort orange light 262°30'.
24876 <i>D 3155.4</i>	---Elbow.	4° 55.8' N 1° 41.9' W	Fl.W. period 3s	30 9	7	White square tower.	
24880 <i>D 3156</i>	--Lee Breakwater, head.	4° 56.1' N 1° 41.8' W	Fl.G. period 3s	30 9	7	Green and white checkered square tower.	
24884 <i>D 3162</i>	Accra (Akkra).	5° 32.0' N 0° 13.0' W	Fl.(4)W. period 25s fl. 0.3s, ec. 2.9s fl. 0.3s, ec. 2.9s fl. 0.3s, ec. 2.9s fl. 0.3s, ec. 15.1s	110 34	16	Gray circular tower; 93.	Visible 245°-077°.

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GHANA							
24892 <i>D 3166</i>	-AVIATION LIGHT.	5° 36.0' N 0° 10.0' W	Al.W.G. period 5s	249 76		On hangar; 61.	Occasional.
TEMA:							
24896 <i>D 3167</i>	-Breaker Point.	5° 39.0' N 0° 01.0' E	Fl.W. period 7.5s	154 47	18	Black structure, white stripes.	F.R. lights shown on tower 1.1 miles 351°.
24904 <i>D 3167.2</i>	-Main breakwater.	5° 37.0' N 0° 01.0' E	Mo.(U)R. period 10s	40 12	6		Q.R. visible 055°-250° shown 400 yards WSW.
24908 <i>D 3167.4</i>	-Lee breakwater.	5° 37.6' N 0° 01.0' E	Iso.G. period 10s	40 12	6		
24916 <i>D 3167.52</i>	--E. Breakwater, head.	5° 37.9' N 0° 01.2' E	Q.R.G.		2		R. 068°-248°, G.-068°.
24920 <i>D 3167.6</i>	-Fishing port, S. breakwater, head.	5° 38.1' N 0° 01.1' E	F.R.	16 5	1		A F.G. light is shown from head of E. breakwater.
24924 <i>D 3168</i>	Cape St. Paul.	5° 50.0' N 0° 58.0' E	Fl.W. period 15s fl. 1.7s, ec. 13.3s	75 23	26	White pile structure, red bands; 83.	
TOGO							
RADE DE LOME:							
24928 <i>D 3171</i>	-Lome.	6° 08.0' N 1° 15.0' E	Fl.(2)W. period 10s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 7.2s	125 38	20	Gray water tower, red and white supports.	
24932 <i>D 3174</i>	-Port of Lome, Jetee Ouest, head.	6° 08.0' N 1° 18.0' E	Oc.R. period 6s lt. 5s, ec. 1s	43 13	5	Red tower; 26.	
24936 <i>D 3174.2</i>	--Jetee Est, head.	6° 08.0' N 1° 17.4' E	Oc.G. period 6s lt. 5s, ec. 1s		5	Green tower.	Siren: Mo.(L) ev. 25s.
24944 <i>D 3173</i>	-Baguida.	6° 10.0' N 1° 19.0' E	Oc.W.R. period 3s lt. 2.5s, ec. 0.5s	125 38	W. 17 R. 13	Aluminum-colored pylon, black top; 112.	W. shore-042°, R.-shore. Reserve light Q.R.
24948 <i>D 3176</i>	Kpeme, at extremity of pier.	6° 11.0' N 1° 31.0' E	Oc.(2)W. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	82 25	11	Metal framework tower.	
BENIN							
24952 <i>D 3178</i>	Cotonou.	6° 21.1' N 2° 26.4' E	Fl.W. period 5s fl. 0.2s, ec. 4.8s	102 31	20	Gray metal framework tower; 85.	F.R. lights on radio mast 1.6 miles NE., 1.7 and 2.4 miles W., and 750 meters NW. Reserve light range 19M.
24956 <i>D 3179</i>	-Digue Ouest, head.	6° 20.6' N 2° 26.0' E	Oc.(2)R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	33 10	8	Red cylinder on white pylon.	
24960 <i>D 3180</i>	-Spur, head.	6° 20.4' N 2° 25.7' E	Fl.(4)R. period 15s		3	Metal column.	Oc.(3)Y., V.Q.R., F.Y. mark extensive changes to port area to NW.
24964 <i>D 3181</i>	-N. breakwater, head.	6° 20.7' N 2° 25.9' E	Iso.G. period 2s	26 8	4	Green column.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
NIGERIA							
LAGOS HARBOR:							
24968 <i>D 3870</i>	-Beecroff Point.	6° 24.2' N 3° 23.0' E	Fl.(2)W. period 15s fl. 0.5s, ec. 3.2s fl. 0.5s, ec. 10.8s	86 26	15	Black cylindrical tower, white band and lantern; 89.	
	-RACON		L(•-•••)		20		
24970 <i>D 3871.5</i>	-W. mole wharf, front.	6° 24.8' N 3° 23.8' E	Q.W.	39 12	11	Concrete post, white triangular daymark, black stripe, point down.	
24972 <i>D 3871.51</i>	--Rear, 200 meters 345°45' from front.	6° 24.9' N 3° 23.8' E	Iso.W. period 6s	59 18	9	Concrete post, white triangular daymark, black stripe, point down.	
24976 <i>D 3873</i>	-E. mole, head.	6° 24.0' N 3° 24.0' E	Fl.G. period 3s	30 9	5	White mast.	Radar reflector.
24981 <i>D 3877.2</i>	-Atlas Cove Oil terminal jetty, N. end.	6° 25.0' N 3° 24.0' E	2 F.R. (vert.)				
24982 <i>D 3877</i>	--Jetty, S. end.	6° 24.0' N 3° 24.0' E	2 F.R. (vert.)				
24984 <i>D 3876</i>	-W. training wall, N. end.	6° 24.0' N 3° 24.0' E	I.Q.R.			White quadrangular stone structure, red checkers.	
24992 <i>D 3878</i>	-E. mole.	6° 25.0' N 3° 24.0' E	Fl.R.				Storm signals. Signal station.
24996 <i>D 3881</i>	-Wilmot Point S. Jetty, head.	6° 25.0' N 3° 24.0' E	Dir.Oc.(2)W.R.G. period 10s lt. 2s, ec. 1s lt. 6s, ec. 1s		6	Tower; 30.	G. 009°42'-015°42', W.-021°42', R.-029°42'.
			Q.G.		5		Visible 029°-189°.
25004 <i>D 3884</i>	-Marina, Dir. Lt. 351°.	6° 26.4' N 3° 24.1' E	Dir.Oc.(3)W.R.G. period 12s lt. 2s, ec. 1s lt. 2s, ec. 1s lt. 5s, ec. 1s		6		G. 341°30'-348°30', W.-353°30', R.-001°30'.
25008 <i>D 3885</i>	-Apapa Wharf, NE. corner.	6° 26.3' N 3° 23.8' E	Fl.R. period 8s		4		
25012 <i>D 3885.5</i>	-SE. corner.	6° 26.0' N 3° 23.6' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s		4		
25016 <i>D 3886</i>	Tin Can Island, E.	6° 25.9' N 3° 21.7' E	Q.G.		5	Dolphin; 23.	
25028 <i>D 3871</i>	-Necom.	6° 26.8' N 3° 23.9' E	Fl.W. period 30s	525 160	40	Telecommunications building; 512.	
25032 <i>D 3888</i>	-Carter Bridge, about 1430 meters 073°30' from Bluff Point Beacon.	6° 28.0' N 3° 23.1' E	F.G.	18 5	2		
ESCRAVOS RIVER:							
25036 <i>D 3900</i>	-Oidigbe.	5° 33.6' N 5° 10.9' E	Fl.(3)W. period 20s	130 40	17	Metal framework tower, black band.	Obscured on bearings of less than 008°.
25037	-Escravos Gas Terminal, Storage Tanker. -RACON	5° 31.6' N 4° 51.7' E	B(-•••)				
25038 <i>D 8580.6</i>	-Berthing operations platform.	5° 30.5' N 5° 00.3' E	Mo.(U)W. period 15s	85 26	26	Metal structure; 85.	Horn: 1 bl. ev. 20s (bl. 2s, si. 18s).
25040	-Fairway buoy.	5° 29.0' N 5° 00.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s			Red spherical buoy, ball topmark.	Bell. Radar reflector.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
NIGERIA							
25044 <i>D 3904</i>	-Main mole, head.	5° 31.0' N 5° 06.0' E	Fl.W. period 10s	33 10	10	Metal framework tower; 26.	Radar reflector.
25048 <i>D 3906</i>	-Island mole, S. end.	5° 31.3' N 5° 07.1' E	Fl.W. period 5s	23 7	8	Metal framework pylon with hut; 20.	Radar reflector.
25049 <i>D 8581.7</i>	Loading Berth.	5° 10.2' N 5° 10.7' E	Mo.(U)W. period 15s	66 20	7		
	RACON		D(- • •)				
25052	<i>Middleton River Bell Buoy.</i>	4° 30.0' N 5° 30.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s			Red and white striped buoy, ball topmark.	Bell. Radar reflector.
25056 <i>D 3930</i>	Palm Point.	4° 16.2' N 6° 04.8' E	Fl.W. period 10s fl. 1.2s, ec. 8.8s	100 30	15	White metal pile structure.	The navigable spans of Benue Bridge are marked by F.G. lights when bridge is open and F.R. lights when closed. Not shown from Dec. 1 to May 31.
25058 <i>D 8584.4</i>	Brass Oil Terminal Berth Operating Platform.	4° 04.0' N 6° 17.2' E	Mo.(U)W. period 15s Mo.(U)R. period 15s				Horn: Mo.(U)
	RACON		T(-)				
25064 <i>D 3940</i>	-Bonny.	4° 24.2' N 7° 08.2' E	Fl.(2)W. period 20s fl. 0.3s, ec. 4.7s fl. 0.3s, ec. 14.7s	130 40	17	Gray skeleton framework tower.	Visible 214°-180°. F.R. lights on radio mast 2.4 miles NE.
25068 <i>D 3944</i>	--Boier's Pier, near root.	4° 27.3' N 7° 10.3' E	Oc.G. period 2.5s	29 9			Signal station.
25070 <i>D 8588.2</i>	Qua Iboe.	4° 14.2' N 8° 02.7' E	Mo.(U)W. period 15s		20		Horn.
	RACON						Azimuth coverage 180°-090°.
25072	<i>Fairway Buoy.</i>	4° 19.0' N 8° 15.0' E	Iso.W. period 8s			SAFE WATER RW, spherical, topmark.	Bell. Radar reflector.
25076	<i>-Buoy No. "1".</i>	4° 21.0' N 8° 16.0' E	L.Fl.W. period 10s			SAFE WATER RW, spherical.	
25080	<i>-Buoy No. "2".</i>	4° 23.0' N 8° 18.0' E	Iso.W. period 4s			SAFE WATER RW, spherical.	
CAMEROON							
CALABAR RIVER:							
25084 <i>D 3990</i>	-Debundscha Point.	4° 06.0' N 8° 58.7' E	Fl.W.R. period 5s	134 41	16	White tower; 85.	R. 130°-161°, W.-130°.
AMBAS BAY:							
25088 <i>D 4008</i>	-Range, front.	4° 00.6' N 9° 11.1' E	F.R.			White beacon, black bands.	
25092 <i>D 4008.1</i>	--Rear, 032° from front.	4° 00.6' N 9° 12.1' E	F.R.			White beacon, black bands.	
25096 <i>D 4006</i>	-Bota Pier, on flagstaff.	4° 00.5' N 9° 11.6' E	2 F.G. (vert.)		5	Flagstaff.	2 F.R. lights on a bearing 9°, marking the approach to Morton Bay, are located about 635 yards 314° from Bota Church.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CAMEROON							
25100 <i>D 4000</i>	Cape Nachtigal.	3° 57.1' N 9° 12.8' E	Iso.W. period 2s	144 44	14	White masonry tower; 42.	Visible 285°-133°.
BIMBIA RIVER:							
25104 <i>D 4018</i>	-Entrance Point.	3° 58.5' N 9° 17.1' E	Fl.W.R. period 7s fl. 0.5s, ec. 6.5s	14 4	8	Masonry hut, painted in red and white checkers; 14.	W. 228°-033°, R.-228°.
25108	-Buoy No. "1".	3° 56.0' N 9° 14.0' E	Fl.W. period 5s			Black buoy, conical topmark.	
OFFSHORE ISLANDS							
MACIAS NGUEMA BIYOGO (FERNANDO POO):							
25112 <i>D 4040</i>	-Punta Europa (Los Frailes).	3° 46.9' N 8° 43.0' E	Fl.(3)W. period 20s fl. 1s, ec. 4s fl. 1s, ec. 4s fl. 1s, ec. 9s	233 71	25	White framework tower, red bands.	Obscured by trees S. of 073°.
25116 <i>D 4039</i>	-Matabo (Santa Isabel) Airport.	3° 45.2' N 8° 42.9' E	Al.Fl.W.G. period 6s	141 43		Control tower.	Occasional.
25120 <i>D 4032</i>	-Punta la de Unidad Africana(Punta Fernanda)	3° 45.7' N 8° 47.0' E	Oc.(4)R. period 12s lt. 5s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s	112 34	5	Column on pyramid; 26.	
25124 <i>D 4036</i>	-Malabo (Santa Isabel) Range, front.	3° 45.3' N 8° 47.1' E	Oc.(2)W. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	33 10	8	Framework tower, red and white bands; 26.	
25128 <i>D 4036.1</i>	--Rear, 40 meters 120° from front.	3° 45.3' N 8° 47.1' E	Oc.(2)W. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	141 43	10	Framework tower, red and white bands; 10.	
25136 <i>D 4028</i>	-Islote Horacio	3° 46.4' N 8° 54.6' E	Fl.W. period 4s fl. 1s, ec. 3s	72 22	10	White pylon; 52.	
25140 <i>D 4043</i>	-Islote Loros, NW. side.	3° 32.4' N 8° 34.1' E	Q.W.	35 11	7	White metal tower; 13.	
-Bahia De Luba:							
25144 <i>D 4046</i>	--Punta Barcelonesa.	3° 27.9' N 8° 32.7' E	Fl.(4)W.R. period 15s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	147 45	W. 12 R. 10	White 6-sided tower; 52.	W. 090°-186°, R.-270°.
25146 <i>D 4051</i>	-Puerto Luba.	3° 27.5' N 8° 33.5' E	Oc.(2)W.R.G. period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	98 30	W. 8 R. 5 G. 5	White metal mast; 16.	R. 090°-150°, W.-180°, G.-270°, obsc.-090°.
25156 <i>D 4056</i>	-Cabo Agudo, Punta Santiago.	3° 12.4' N 8° 40.6' E	Fl.(2+1)W. period 20s fl. 1s, ec. 7.5s fl. 1s, ec. 2s fl. 1s, ec. 7.5s	262 80	12	Pylon; 82.	Visible 238°42'-104°42'. Aeromarine light.
25160 <i>D 4064</i>	-Fronton de Caracas.	3° 25.4' N 8° 48.5' E	Fl.(3)W.R. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	61 19	W. 8 R. 5	White pyramidal tower; 26.	R. 200°-215°, W.-018°, R.-040°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
OFFSHORE ISLANDS							
25164 D 4060	-Bahia de Riaba.	3° 22.9' N 8° 45.8' E	Fl.W.R.G. period 5s fl. 1s, ec. 4s		5	White tower; 20.	G. 090°-247°, W.-297°, R.-090°.
ILHA DO PRINCIPE:							
25172 D 4154	-Ponta da Mina.	1° 39.0' N 7° 26.4' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	177 54	9	Tower, red and white bands; 16.	Visible 230°-292°.
25174 D 4158.5	-Focinho de Cao.	1° 36.3' N 7° 19.8' E	Fl.W. period 12s fl. 1.2s, ec. 10.8s	49 15	12	White rectangular tower, red bands; 6.	
25174.5 D 4159	-Ilheu Caroco, Bone do Joquei.	1° 30.7' N 7° 25.8' E	Fl.(3)W. period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	95 29	12	White square tower, red bands; 16.	Obscured northwards.
25175 D 4149	-Ponta Chindela.	1° 37.7' N 7° 27.8' E	Fl.(4)W. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 8.5s	115 35	9	White square tower, red bands; 16.	
25176 D 4155	-Santo Antonio do Principe.	1° 38.7' N 7° 25.4' E	Fl.(3)W.R.G. period 10s	43 13	W. 9 R. 6 G. 6	Lantern on harbor office, red and white stripes; 39.	G. shore-239°, W.-245°, R.-shore.
25177 D 4154.2	-Mosteiros.	1° 41.2' N 7° 28.3' E	Fl.W. period 7s fl. 1s, ec. 6s	82 25	12	White square tower, red bands; 16.	
25180 D 4158	-Ilheu Bombom, summit.	1° 42.0' N 7° 24.6' E	Fl.(2)W.R. period 10s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 7.2s	209 64	W. 12 R. 9	White square tower; 12.	W. 149°-124°, R.-149°.
25182 D 4160	Tinhosa Grande, summit.	1° 20.7' N 7° 17.6' E	Fl.(2)W.R. period 15s fl. 1s, ec. 2s fl. 1s, ec. 11s	197 60	W 12 R 9	White square tower, red bands; 16.	W. 180°-155°, R.-180°.
ILHA DE SAO TOME.							
25183 D 4243	-Lagoa Azul.	0° 24.5' N 6° 37.0' E	Fl.(2)W. period 15s fl. 1s, ec. 2s fl. 1s, ec. 11s	112 34	12	Rectangular tower; 16.	
25184 D 4230	-Ilheu das Cabras, summit.	0° 24.6' N 6° 43.3' E	Fl.(2+1)W. period 15s fl. 1s, ec. 2s fl. 1s, ec. 5s fl. 1s, ec. 5s	319 97	12	White round tower, red lantern; 16.	
-Porto de Ana Chaves:							
25192 D 4237	--Sao Sebastiao.	0° 20.8' N 6° 44.7' E	Fl.(4)W.R. period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	43 13	W. 12 R. 9	White round tower, red lantern, on fortress; 20.	R. 332°-171°, W.-332°.
25196 D 4234	--Punta de San Jose Range, front.	0° 21.5' N 6° 43.9' E	Fl.G. period 2s fl. 0.5s, ec. 1.5s	30 9	6	White tower, red bands; 16.	
25200 D 4234.1	---Rear, about 80 meters 285° from front.	0° 21.5' N 6° 43.9' E	Iso.G. period 4s	122 37	6	White tower, red bands; 16.	
25201 D 4238	-Ilheu Santana.	0° 14.5' N 6° 46.0' E	Fl.W. period 7s fl. 0.8s, ec. 6.2s	144 44	12	Rectangular tower; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
OFFSHORE ISLANDS							
25202 D 4239	-Ponta do Io, Angolares.	0° 06.6' N 6° 39.5' E	Fl.(3)W.R. period 20s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 15.2s	128 39	W 12 R 9	Tower; 16.	W. 035°-015°, R.-035°.
25204 D 4241	-Ilheu Gago Coutinho.	0° 00.3' N 6° 31.6' E	Fl.(2)W. period 10s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	349 106	12	Yellow square tower, red lantern, on dwelling; 30.	
25205 D 4242	-Ponta Furada.	0° 14.6' N 6° 28.0' E	Fl.W. period 8s fl. 1s, ec. 7s	161 49	12	Rectangular tower; 16.	
ISLA DE PAGALU							
25208 D 4248	-Mission de Santo Antonio.	1° 24.2' S 5° 36.9' E	Fl.W. period 4s fl. 1s, ec. 3s	151 46	10	Masonry tower; 23.	
25210 D 4249	-Pointe San Antonio.	1° 27.6' S 5° 36.9' E	Oc.(4)R. period 12s lt. 1s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s lt. 5s, ec. 1s		6		
CAMEROON							
KOLE:							
25212	-Loading terminal, <i>Buoy</i> "SBM".	4° 15.0' N 8° 33.0' E	Fl.(3)W. period 12s			Single point mooring buoy.	Floating hose marked by Fl.W. lights. Radar reflector.
25226 D 8588.6	-Antan oil terminal "FPSO6".	4° 13.3' N 8° 20.1' E	Mo.(U)W. period 15s		10	Storage tanker at piled platform.	Horn: Mo.(U)
POINT LIMBAH:							
25228 D 8589.6	-Oil Terminal jetty, head.	4° 00.7' N 9° 07.7' E	Fl.R. period 4s		5		
DOUALA:							
25232	-Approach buoy " <i>Wouri</i> ", entrance to Riviere Cameroun.	3° 45.0' N 9° 23.0' E	L.Fl.W. period 10s fl. 3s, ec. 7s			SAFE WATER RW, pillar, topmark.	Buoys of unreliable position and characteristic mark channel northeastward.
25233	-Cap Cameroun, RACON.	3° 54.7' N 9° 28.7' E	C(- • - •) period 30s		16		
25234	-Pointe Souellaba, RACON.	3° 49.1' N 9° 33.1' E	D(- • •) period 30s		16		
KRIBI:							
25236 D 4134	-Margaret Point. Entrance Range, Front.	2° 56.2' N 9° 54.2' E	Fl.(3)W. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	59 18	14	White tower, red top; 49.	Visible over an arc of 225°.
25240 D 4134.1	--Rear, about 555 meters 115° from front.	2° 56.1' N 9° 54.7' E	F.G.	98 30	8	Belfry.	Visible on range line only. Light on radio mast 1 mile SSE.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
EQUATORIAL GUINEA							
25248 <i>D 4170</i>	Punta Mbonda.	2° 05.6' N 9° 45.0' E	Fl.(3+1)W. period 20s fl. 0.1s, ec. 3.3s fl. 0.1s, ec. 3.3s fl. 0.1s, ec. 6.5s fl. 0.1s, ec. 6.5s	119 36	20	Octagonal brick tower; 115.	Aeromarine light.
25252 <i>D 4175</i>	Puerto Macias Nguema, jetty, head.	1° 49.6' N 9° 44.4' E	Iso.W.R. period 4s	9 3	W. 11 R. 7	Metal mast.	R. 159°-204°, W.-159°.
25256 <i>D 4174</i>	Bata, wharf, SW corner	1° 52.4' N 9° 46.3' E	Iso.W.R. period 4s	42 13	W. 8 R. 5	Aluminum mast.	R. 000°-159°, W.-204°. F.R. lights on radio towers 2.4 miles NE. and 1 mile ENE.
RIO BENITO:							
25260 <i>D 4175.5</i>	-Punta Ngaba.	1° 45.3' N 9° 40.8' E	Fl.W. period 5s fl. 0.1s, ec. 4.9s	62 19	18	Tower.	
25264 <i>D 4176</i>	-Punta Mbode.	1° 37.4' N 9° 36.4' E	Q.(4)W. period 9s fl. 0.2s, ec. 0.8s fl. 0.2s, ec. 0.8s fl. 0.2s, ec. 0.8s fl. 0.2s, ec. 5.8s	46 14	6	Light gray metal framework; 39.	
25268 <i>D 4180</i>	-Punta Negra Pier.	1° 35.3' N 9° 37.8' E	F.R.	11 3	1	Concrete column; 7.	
25272 <i>D 4177</i>	Forestry Service, south side of entrance.	1° 34.8' N 9° 36.4' E	Fl.(3)W. period 6s fl. 0.3s, ec. 0.7s fl. 0.3s, ec. 0.7s fl. 0.3s, ec. 3.7s	56 17	7	Light gray metal framework tower; 23.	<i>Temporarily extinguished.</i>
25276 <i>D 4190</i>	Cabo San Juan.	1° 10.5' N 9° 20.8' E	Fl.(2)W. period 10s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 7.4s	79 24	15	Red pylon; 59.	F.W. 167 meters NW.
CORISCO BAY:							
25280	<i>-Banco de Elobey Buoy.</i>	1° 03.7' N 9° 27.7' E	Q.(2)R. period 6.5s			PORT (A) R, pillar.	
BAHIA DE CORISCO:							
25288 <i>D 4210</i>	-Rio Muni. Port de Cogo, Dir. Lt 058°	1° 04.6' N 9° 41.5' E	Dir.Iso.W.R.G. period 4s	105 32	W. 9 R. 7 G. 7	Red tower; 52	G. 043-057°, W.-059°, R.-073°.
25300 <i>D 4200</i>	-Isla de Corisco, N. end.	0° 56.1' N 9° 19.1' E	Fl.W. period 4s fl. 1s, ec. 3s	92 28	8	Red square tower; 10.	
GABON							
25304 <i>D 4260</i>	Pointe N'Dombo.	0° 56.3' N 9° 33.1' E	Fl.W. period 4s	24 7	8	White square tower; 26.	
25308 <i>D 4266</i>	Ile Nende, Riviere Mondah.	0° 35.9' N 9° 32.7' E	Oc.(2)W. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	98 30	6	Tower, white rectangular daymark.	
25312 <i>D 4272</i>	Cap Esteiras.	0° 37.2' N 9° 19.6' E	Fl.(2+1)W. period 12s fl. 1s, ec. 1s fl. 1s, ec. 4s fl. 1s, ec. 4s	59 18	8	White beacon.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GABON							
ESTUAIRE DU GABON:							
25316 <i>D 4276</i>	-Pointe Gombe,	0° 18.3' N 9° 18.3' E	Fl.W. period 10s fl. 0.7s, ec. 9.3s	187 57	25	White column, black band; 39.	The lights in the estuary are unreliable.
25344 <i>D 4284.2</i>	--Breakwater, NW. end.	0° 24.1' N 9° 26.1' E	Iso.G. period 4s		5		
25348 <i>D 4284</i>	--Breakwater, SE. end.	0° 23.9' N 9° 26.2' E	Iso.R. period 4s		5		
25356 <i>D 4286</i>	-Pointe Owendo.	0° 17.2' N 9° 30.5' E	Fl.(2)W. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	150 46	8	White square tower, red top; 13.	
25364 <i>D 4287.5</i>	--Pier.	0° 17.5' N 9° 30.9' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	16 5	3	Black and white tower; 13.	
PORT GENTIL:							
25372 <i>D 4290</i>	-Balise des Capitaines Range, front.	0° 37.6' S 8° 43.1' E	Fl.R. period 2s	36 11	8	Red and white framework structure.	
25384 <i>D 4294</i>	Yombe River	0° 45.3' S 8° 52.5' E	Iso.W. period 4s	33 10	6	Red and white metal framework tower; 29.	
OIL WELL AREA S. OF CAP LOPEZ:							
25388 <i>D 8605</i>	-N. corner.	0° 47.0' S 8° 44.2' E	Mo.(U)W.	42 13	7	Platform.	Horn: Mo.(U)
Some unlit oil structures are found in this area.							
25404	--Wells "DRM-1".	1° 01.0' S 8° 46.0' E	Fl.(3)W. period 10s	33 10	3	Black pipe, black ball daymark.	
25408	--Wells "MRM-1".	1° 04.0' S 8° 43.0' E	Fl.(3)W. period 10s	33 10	3	Black pipe, black ball daymark.	
25420 <i>D 8605.2</i>	--W. angle.	1° 09.0' S 8° 29.0' E	Mo.(U)W.R. period 10s	23 7	9	Oil well platform "Girelle".	W. 341°-203°, R.-341°. Horn: Mo.(U)
25424 <i>D 8605.3</i>	--Grondin, SW corner.	1° 26.7' S 8° 39.9' E	Mo.(U)W.		9	Platform.	Horn: Mo.(U)
25428	--Wells "BRM-1".	1° 29.0' S 9° 06.0' E	Q.W.	33 10	3	Black pipe, black ball daymark.	
25440 <i>D 8605.4</i>	--SE. angle.	1° 36.0' S 9° 12.6' E	Mo.(U)W. period 12s	39 12	7	Pylon.	
25444 <i>D 8610</i>	Gamba.	2° 47.0' S 10° 01.1' E	Fl.(2)W. period 10s	154 47	18	White metal framework tower; 131.	Q.R. light at Nyranga anchorage reported approximately 16 miles SE.

CONGO

BAIE DE POINTE NOIRE:

25452 <i>D 4311</i>	-Pointe Noire.	4° 47.4' S 11° 50.2' E	Fl.W. period 5s fl. 0.3s, ec. 4.7s	89 27	24	Black and white tower; 66.	Visible 329°-194°.
25460 <i>D 4315</i>	-Detached breakwater, N. head.	4° 46.6' S 11° 50.0' E	Oc.(2)R. period 6s lt. 1s, ec. 1s lt. 1s, ec. 3s	33 10	3	White tower.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CONGO							
25464 <i>D 4315.1</i>	-Cathedral.	4° 47.7' S 11° 50.7' E	2 F.R. (horiz.)	131 40	9	Cathedral.	Visible 124°-174°.
25476 <i>D 4314</i>	-Inner breakwater, W. side of entrance.	4° 46.6' S 11° 49.9' E	Iso.G. period 4s	33 10	3	White tower.	
25484 <i>D 4319</i>	Djeno.	4° 55.0' S 11° 55.8' E	Oc.W.R. period 4s lt. 3s, ec. 1s	95 29	W. 18 R. 15		W. 073°-003°, R.-073°.
CABINDA							
25492 <i>D 4326</i>	Punta de Landana.	5° 14.4' S 12° 08.0' E	Oc.W. period 5s lt. 3s, ec. 2s	198 60	9	White square tower; 29.	
25496 <i>D 4332</i>	Malongo Range, front.	5° 23.6' S 12° 11.8' E	Iso.R. period 2s	30 9	8	White triangular tower; 33.	
25500 <i>D 4332.1</i>	-Rear, about 0.4 km. 070° from front.	5° 23.6' S 12° 11.8' E	Iso.R. period 4s	397 121	8	White triangular tower; 33.	
25502 <i>D 8625</i>	Malongo Oil Terminal Platform.	5° 24.8' S 11° 59.5' E	Mo.(U)W. period 10s		5		Horn: Mo.(U) 20s
	RACON		G(— — •)				
25503	Platform "Lima".	5° 14.7' S 11° 49.8' E	Mo.(U)W.				Horn: 1 bl. ev. 20s.
	RACON						
25504 <i>D 4340</i>	Cabinda.	5° 32.9' S 12° 11.0' E	Fl.(2)W. period 10s fl. 0.3s, ec. 3.5s fl. 0.3s, ec. 5.9s	89 27	20	White square framework tower, white hut; 65.	
25506 <i>D 4342.5</i>	-Cabinda Airport AVIATION LIGHT.	5° 35.2' S 12° 11.7' E	Al.Fl.W.G.	98 30			Occasional.
25508 <i>D 4343</i>	-Simulambuco Range, front.	5° 33.2' S 12° 13.3' E	Iso.R. period 2s	30 9	4	White quadrangular masonry tower.	
25512 <i>D 4343.1</i>	--Rear, 302 meters 110° from front.	5° 33.2' S 12° 13.5' E	Iso.R. period 4s	150 46	4	White quadrangular masonry tower.	
ZAIRE							
25516 <i>D 4370</i>	Pointe Kupundji.	5° 53.4' S 12° 17.7' E	Fl.W. period 5s	102 31	15	White metal tower; 31.	
25524 <i>D 4390</i>	Pointe Bulabemba.	6° 03.0' S 12° 27.0' E	Iso.W.R. period 6s	56 17	13	White metal tripod.	W. 286°-106°, R.-143°, obsc.-286°.
ANGOLA							
CONGO RIVER ENTRANCE SOUTH SIDE:							
25528 <i>D 4380</i>	-Moita Seca	6° 06.7' S 12° 16.5' E	Fl.(3)W. period 10s fl. 0.3s, ec. 1.5s fl. 0.3s, ec. 1.5s fl. 0.3s, ec. 6.1s	66 20	12	White hexagonal iron skeleton tower; 69.	Visible 008°-202°. <i>Reported extinguished (1989).</i>
25532 <i>D 4382</i>	-Ponta do Padrao.	6° 04.7' S 12° 19.7' E	Fl.G. period 4s	26 8	6	White pylon; 23.	Radar reflector.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ANGOLA							
25536 <i>D 4384</i>	-Santo Antonio Entrance Range, front.	6° 07.4' S 12° 21.9' E	F.R.	13 4	6	Metal lantern on white triangular mark, point up.	
25540 <i>D 4384.1</i>	--Rear, about 150 meters 152°18' from front.	6° 07.5' S 12° 22.0' E	F.R.	30 9	6	Metal lantern on white triangular mark, point down.	Aero Radiobeacon about 0.8 mile SSE.
25544	-Sazaire Oil Terminal.	6° 05.8' S 12° 23.0' E	Iso.W. period 4s			Platform.	
25548 <i>D 4400</i>	-Quissanga.	6° 02.1' S 12° 37.2' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	21 6	6	White triangular tower; 26.	
25549 <i>D 4600</i>	-Selonga Range, front.	5° 53.1' S 13° 00.9' E	Iso.W. period 2s	20 6	14	Elliptical tower on rocks; 7.	Visible 062°-067°.
25549.1 <i>D 4600.1</i>	-- Sacra-Ambaca , rear, 064°30' from front.	5° 52.1' S 13° 03.0' E	Iso.R. period 4s	30 9	16	Tower on round base; 23.	Visible 062°-067°.
25550 <i>D 4616</i>	- Libulu Range , front.	5° 54.5' S 13° 07.3' E	Iso.W. period 2s	33 10	20	Tower, square base, white triangular daymark; 20.	
25550.5 <i>D 4616.1</i>	--Rear, 400 meters 141° from front.	5° 54.7' S 13° 07.4' E	Iso.W. period 4s	148 45	20	Metal framework tower, white triangular daymark; 7.	
25551 <i>D 4630</i>	- Rocha Libulu .	5° 54.1' S 13° 08.1' E	Fl.R. period 4s fl. 1s, ec. 3s	13 4	15	Square framework tower; 7.	
25552 <i>D 8633</i>	Oil loading terminal tower.	6° 30.3' S 12° 27.6' E	L.Fl.W. period 7s fl. 2s, ec. 5s	23 7	5	Metal column.	Horn: Mo.(U) ev. 30s
25556 <i>D 5003</i>	Cabeca de Cobra .	6° 32.8' S 12° 30.0' E	Fl.W. period 4s fl. 0.3s, ec. 3.7s	138 42	19	White square tower, small white house on N. side; 43.	
25560 <i>D 5006</i>	Ponta do Quinzau .	6° 53.3' S 12° 45.4' E	Mo.(V)W. period 12s fl. 0.8s, ec. 1s fl. 0.8s, ec. 1s fl. 0.8s, ec. 1s fl. 2.6s, ec. 4s	180 55	20	Yellow square tower, black bands, white dwellings; 49.	
25564 <i>D 5040</i>	Ambrizete .	7° 15.7' S 12° 51.2' E	Fl.(3)W. period 10s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 5.7s	110 34	17	White square tower, cross daymark; 65.	
25568 <i>D 5060</i>	Ambriz .	7° 50.1' S 13° 06.0' E	Fl.(4)W. period 12s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 5.7s	108 33	16	White square tower; 45.	
25572 <i>D 5080</i>	Ponta do Dande .	8° 28.1' S 13° 20.8' E	Fl.(2)W. period 10s fl. 0.3s, ec. 1.4s fl. 0.3s, ec. 8s	207 63	16	White square masonry tower, red bands.	
BAIA DE LUANDA:							
25576 <i>D 5100</i>	-Ponta das Lagostas.	8° 45.4' S 13° 18.4' E	Oc.(2)R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	266 81	7	White quadrangular tower, two dwellings attached; 46.	Radar reflector.
25584 <i>D 5101</i>	-Ilha do Cabo, Ponta da Ilha.	8° 45.6' S 13° 15.9' E	Fl.(3)W. period 8s fl. 2s, ec. 1.4s fl. 0.9s, ec. 1.4s fl. 0.9s, ec. 1.4s	36 11	9	White square metal framework tower on building; 36.	
25596 <i>D 5104</i>	-Pedras de Mae-Isabel.	8° 47.9' S 13° 14.5' E	F.W.	15 5	1	Tower with gallery, black and white bands, on stone base.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ANGOLA							
25600 <i>D 5150</i>	Ponta das Palmeirinhas.	9° 04.2' S 12° 59.3' E	Fl.W. period 4.5s fl. 0.3s, ec. 4.2s	131 40	21	White square tower; 36.	Aeromarine light.
25604 <i>D 5180</i>	Cabo Ledo.	9° 41.0' S 13° 12.0' E	Fl.(3)W. period 15s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 8.5s	335 102	17	White hexagonal masonry tower, galleries, two small buildings attached; 39.	
25608 <i>D 5200</i>	Cabo das Tres Pontas.	10° 23.0' S 13° 32.0' E	Fl.(2)W. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	168 51	12	White square masonry tower, small building; 46.	
25612 <i>D 5226</i>	Cambiri.	10° 43.8' S 13° 45.0' E	Fl.R. period 4s fl. 1s, ec. 3s	211 64	3	White hut; 13.	
25616 <i>D 5228</i>	--Pier, NW. corner.	10° 43.7' S 13° 45.1' E	F.R.	9 3	3	Column.	
25620 <i>D 5228.2</i>	--SW. corner.	10° 43.7' S 13° 45.1' E	F.G.	15 5	3	Column.	
25624 <i>D 5224</i>	Porto Amboim.	10° 45.4' S 13° 43.2' E	Oc.(2)W. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	361 110	9	White square tower, attached dwellings; 39.	
25628 <i>D 5240</i>	Novo Redondo, on N. corner of fort.	11° 11.5' S 13° 50.2' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	112 34	8	Black column on house; 23.	
25632 <i>D 5250</i>	Quicombo.	11° 21.0' S 13° 48.0' E	Fl.(4)W. period 12s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 5.7s	450 137	16	White square tower; 46.	Aeromarine light.
25636 <i>D 5270</i>	Punta do Egito.	11° 59.9' S 13° 43.5' E	Fl.W. period 4s fl. 0.3s, ec. 3.7s	450 137	19	White round tower, red stripes.	Temporarily extinguished.
BAIA DO LOBITO:							
25640 <i>D 5280</i>	--Lobito.	12° 19.2' S 13° 35.7' E	Fl.(2)W. period 10s fl. 0.3s, ec. 1s fl. 0.3s, ec. 7.2s	348 106	20	White round tower, dwelling; 49.	
25644 <i>D 5288</i>	--Restinga	12° 18.9' S 13° 35.0' E	Oc.(2)W. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	46 14	7	Red metal framework, white bands; 33.	Radar reflector.
BAIA DE BENGUELA:							
25648 <i>D 5312</i>	--Ponta de Sombreiro, W. point of bay.	12° 35.0' S 13° 17.9' E	Oc.(3)W. period 9s lt. 3.6s, ec. 1s lt. 1.2s, ec. 1s lt. 1.2s, ec. 1s	424 129	8	Red column on white dwelling; 23.	
25652 <i>D 5300</i>	--Old fort, N. face Range front.	12° 34.4' S 13° 23.9' E	Q.W.R.G.	36 11	W. 10 R. 8 G. 7	Square tower; 23.	R. 053°-090°, W.-190°, G.-233°.
25656 <i>D 5300.1</i>	--Rear 490 meters 118° from front.	12° 34.5' S 13° 24.1' E	F.R.	53 16	3	Church steeple; 39.	
25660 <i>D 5304</i>	--Pier, NE. corner, head.	12° 35.1' S 13° 23.2' E	Fl.R. period 2s fl. 0.2s, ec. 1.8s	15 5	2	Metal column; 10.	
25662 <i>D 5304.2</i>	--SW. corner.	12° 35.1' S 13° 23.2' E	Fl.G. period 2s	15 5	2	Column.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ANGOLA							
25664 D 5324	Ponta das Salinos.	12° 50.0' S 12° 56.0' E	Fl.W. period 4s fl. 0.3s, ec. 3.7s	128 39	21	Square tower; 124.	Aeromarine light.
25668 D 5328	Ponta dos Frades.	13° 12.9' S 12° 42.8' E	Oc.(2)W. period 7.5s lt. 2s, ec. 0.5s lt. 2s, ec. 3s	463 141	19	White round tower with 2 dwellings attached; 30.	
25672 D 5336	Cabo de Santa Maria.	13° 25.2' S 12° 31.9' E	Fl.(3)W. period 13s fl. 0.3s, ec. 1.9s fl. 0.3s, ec. 1.9s fl. 0.3s, ec. 8.3s	335 102	17	White square masonry tower and house; 39.	<i>Temporarily extinguished (1984).</i>
25676 D 5346	Cabo de Santa Marta.	13° 52.6' S 12° 25.4' E	Fl.(2)W. period 6s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 4.2s	159 48	12	White hexagonal masonry tower; 46.	
25680 D 5356	Ponta Grossa.	14° 13.0' S 12° 20.0' E	Fl.(4)W. period 12s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 5.7s	164 50	16	White square masonry tower; 46.	Aeromarine light.
25684 D 5370	Ponta Piambo	14° 41.3' S 12° 16.8' E	Fl.(3)W. period 10s fl. 0.2s, ec. 1.5s fl. 0.2s, ec. 1.5s fl. 0.2s, ec. 6.4s	177 54	17	Black and white striped square tower; 38.	
BAIA DE MOCAMEDES:							
25688 D 5400	-Ponta do Giraul	15° 08.2' S 12° 06.7' E	Fl.W. period 5s fl. 0.7s, ec. 4.3s	99 30	18	White square tower; 78.	<i>Temporarily extinguished (1984).</i>
25692 D 5404	-Porto Salazar, entrance Range, front.	15° 07.8' S 12° 08.5' E	Iso.R. period 2s	33 10	3	White column on tower.	
25696 D 5404.1	--Rear, about 2.7 km. 037°30' from front.	15° 06.7' S 12° 09.4' E	Iso.R. period 4s	158 48	3	White column on tower.	
25700 D 5418	-Fortaleza de S. Fernando.	15° 11.8' S 12° 08.6' E	Oc.(2)R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	94 29	6	White structure; 13.	Visible 083°-197°.
25704 D 5420	--Quay, N. end.	15° 11.5' S 12° 07.8' E	Fl.G. period 2s fl. 0.2s, ec. 1.8s	15 5	2	Column; 10.	
25708 D 5414	-Ponta Nornonha.	15° 11.3' S 12° 07.5' E	Fl.W.G. period 3s fl. 0.3s, ec. 2.7s	128 39	W. 7 G. 6	White masonry tower, black band.	G. 055°-115°, W.-055°. Aero Radiobeacon 3.4 miles ESE.
25712 D 5430	Rio dos Flamengos.	15° 33.8' S 12° 01.9' E	Fl.(3)W. period 15s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 8.5s	361 110	26	Cylindrical tower, white and yellow stripes, two white houses attached; 36.	
25716 D 5436	Porto Alexandre, on Ponta do Port.	15° 47.1' S 11° 51.0' E	Oc.(3)W.G. period 9s lt. 3.6s, ec. 1s lt. 1.2s, ec. 1s lt. 1.2s, ec. 1s	36 11	W. 9 G. 7	Tripod on white hut, orange diagonal stripes; 26.	W. 215°-185°, G.-215°. Radar reflector.
25720 D 5442	Ponta Albina.	15° 53.0' S 11° 44.0' E	Fl.(2)W. period 10s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 7.2s	115 35	21	White square tower; 124.	Aeromarine light. Siren: 1 bl. ev. 15s.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ANGOLA							
BAIA DOS TIGRES:							
25724 D 5460	- Ponta da Marca.	16° 30.9' S 11° 42.8' E	Fl.(3)W. period 11s fl. 0.5s, ec. 1.7s fl. 0.5s, ec. 1.7s fl. 0.5s, ec. 6.1s	49 15	18	White conical tower on piles; 42	Radar reflector.
25728 D 5464	-Leao	16° 35.9' S 11° 43.4' E	Oc.(2)G. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	36 11	6	Gray square metal tower; 33.	
NAMIBIA							
25752 D 5510	Swakopmund.	22° 40.7' S 14° 31.5' E	Fl.(2)W. period 10s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 7.3s	115 35	18	Red tower, white band; 92.	
WALVIS BAY:							
25756 D 5520	-Pelican Point.	22° 53.5' S 14° 26.1' E	Fl.(3)W. period 20s fl. 0.3s, ec. 3.6s fl. 0.3s, ec. 3.6s fl. 0.3s, ec. 11.9s	115 35	22	Black round tower, white bands; 112.	Radiotelephone. Horn: (about 200 yards N.) Mo.(P) ev. 30s (bl. 1.5s, si. 2s, bl. 4s, si. 2s, bl. 1.5s, si. 13s).
	-RACON		D(-••) period 72s		12		
25760	-Approach Bell Buoy "Spit Bell", 4 km. 020° from Pelican Point.	22° 52.0' S 14° 27.0' E	Q.W.			N. CARDINAL BY, spar, topmark.	Bell. Radar reflector.
25768 D 5522	-Channel Range, front.	22° 57.2' S 14° 29.8' E	Dir.F.R.	65 20	15	On warehouse.	Visible 178°-188°. Shown 24 hours.
25772 D 5522.1	--Rear, 675 meters 183° from front.	22° 57.4' S 14° 29.8' E	Dir.F.W.	102 31	12	Pylon.	Visible 178°-188°. Shown 24 hours.
25776 D 5524	-Transit Range, front.	22° 57.3' S 14° 29.2' E	Iso.W. period 2s	3 1	5	Platform.	Shown 24 hours.
25780 D 5524.1	--Rear, 450 meters 246° from front.	22° 57.3' S 14° 28.9' E	Q.R.	6 2	5	Platform.	Visible 236°-256°. Shown 24 hours.
25784 D 5528	-Tanker berth, N. end.	22° 56.6' S 14° 30.0' E	Fl.(2)R. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	20 6	3	Pole.	Fl.(3) R. 15s shown from S. end.
25785 D 5531	Hofmeyer Wharf, NE. corner.	22° 56.9' S 14° 29.9' E	F.G.	16 5			Q.R. and F.R. light are shown on small craft harbor pier to NNE.
25788 D 5600	-Diaz Point.	26° 38.2' S 15° 05.6' E	Fl.W. period 10s fl. 0.3s, ec. 9.7s	174 53	22	White round tower, red band; 92.	Horn: (450 meters NNW.) 1 bl. ev. 30s.
			F.W.R.	164 50	W. 5 R. 3		W. 200°-230°, R.-290°.
25792 D 5607	-Robert Harbor, entrance Range, front.	26° 37.9' S 15° 09.9' E	Q.W.	56 17			
25796 D 5607.1	-Rear, 250 meters 120° from front.	26° 38.0' S 15° 10.0' E	Fl.R. period 2s	76 23			
25808 D 5606	-Shark Island.	26° 38.1' S 15° 09.2' E	L.Fl.W.R.G. period 10s fl. 2.5s, ec. 7.5s	111 34	8	Metal framework tower; 10.	G. 039°-136°, W.-161°, R.-180°, obscured elsewhere.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
NAMIBIA							
25812 <i>D 5608</i>	-Menai Creek, main pier.	26° 38.5' S 15° 09.3' E	F.G.				F.R. shown from head of timber jetty.
ORANGE MOUTH (ORANJEMUND):							
25816 <i>D 5640</i>	-Oil terminal Range, front.	28° 34.5' S 16° 22.2' E	Q.R.	85 26	11	Metal framework tower, red and white diamond daymark.	Visible 027°30'-059°30'. Occasional (on request).
25820 <i>D 5640.1</i>	--Rear, 1.1 miles 043°30' from front.	28° 28.8' S 16° 23.0' E	Fl.W. period 3s fl. 1s, ec. 2s	223 68	11	Metal framework tower, red and white diamond daymark.	F.R. on radio masts 2 miles ESE. and 1.6 miles WNW. Occasional (on request).
SOUTH AFRICA							
PORT NOLLOTH:							
25824 <i>D 5660</i>	-Range, front.	29° 15.0' S 16° 52.1' E	F.W. or R.	3 1	5		Port signals, R. when bar is closed. On request. Horn: 1 bl. ev. 15s.
25828 <i>D 5660.1</i>	- Carl von Schlick , rear, 50 meters 066° from front.	29° 14.9' S 16° 52.0' E	Fl.(3+1)W. period 24s	56 17	17	Metal framework tower, black and white bands, triangular daymark,; 36.	Bar signals. Signal station.
	-RACON		Z(---••) period 72s		12		
25832 <i>D 5704</i>	Hondeklip Bay.	30° 18.5' S 17° 16.3' E	Fl.(3)W. period 15s fl. 0.1s, ec. 1.8s fl. 0.1s, ec. 1.8s fl. 0.1s, ec. 11.1s	95 29	16	Steel tower, red bands, diamond daymark; 27.	
25836 <i>D 5705</i>	-Hondeklip Bay.	30° 18.9' S 17° 16.6' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	23 7	9	Iron column on white square concrete structure; 9.	Visible 093°-099°.
25838 <i>D 5720</i>	Groenriviermond.	30° 51.9' S 17° 34.8' E	Fl.W. period 5s fl. 0.3s, ec. 4.7s	89 27	26	Yellow round concrete tower, black band; 56.	
25840 <i>D 5734</i>	Doringbaai.	31° 49.0' S 18° 13.9' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	118 36	25	Round concrete tower, black band; 79.	
25844 <i>D 5770</i>	Lambert's Bay, E. breakwater. head.	32° 05.1' S 18° 18.3' E	Fl.W. period 2s	43 13	13	White concrete tower.	
25848 <i>D 5773</i>	-Random Mole, inner breakwater, head.	32° 05.3' S 18° 18.4' E	L.Fl.R. period 10s	20 6	10		
25852 <i>D 5772</i>		32° 05.4' S 18° 18.3' E	Dir.F.W.R.G.	16 5	3	White tower.	G. 183°, W. 186°, R. 189°.
25860 <i>D 5774</i>	-Channel, on concrete pier about 389 meters 175° from breakwater.	32° 05.4' S 18° 18.3' E	Q.R.		4	White concrete tower.	
GROOTBERGRIVIER:							
25864 <i>D 5790</i>	-Berg River Entrance, W. breakwater, head.	32° 46.1' S 18° 08.6' E	Fl.W. period 2s	30 9	7		
25868 <i>D 5791</i>	--Southern end.	32° 46.3' S 18° 08.7' E	Fl.G. period 2s		3		
25872 <i>D 5792</i>	-E. breakwater, head.	32° 46.1' S 18° 08.7' E	Fl.R. period 2s		3		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH AFRICA							
25874 <i>D 5792.2</i>	--Inner E. breakwater, head.	32° 46.2' S 18° 08.7' E	F.R.		3		
	--RACON		B(---)		12		
25876 <i>D 5794</i>	St. Helenabaai, Sandy Point, jetty, head.	32° 44.5' S 18° 01.3' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	20 6	5		
25880 <i>D 5798</i>	Stompneus Punte, N. side of Cape St. Martin.	32° 42.2' S 17° 59.0' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	36 11	10	Square white brick structure, white lantern, green dome; 26.	
25884 <i>D 5801</i>	Cape St. Martins.	32° 42.9' S 17° 55.3' E	Fl.W.R. period 10s	56 17	W. 11 R. 8	Lattice mast with cone daymark, point down.	R. 095°-130° (over Britannia Reef), W.-095°.
25888 <i>D 5803</i>	Seal Island.	32° 44.3' S 17° 52.3' E	Fl.(2)W. period 5s fl. 0.3s, ec. 1s fl. 0.3s, ec. 3.4s	33 10	6	Mast topped by crow's nest; 20.	
	RACON		X(---)				
25892 <i>D 5810</i>	Cape Columbine.	32° 49.6' S 17° 51.5' E	Fl.W. period 15s fl. 0.2s, ec. 14.8s	262 80	30	White square concrete tower; 50.	Nautophone: 1 bl. ev. 60s.
25896 <i>D 5830</i>	Saldanhaabaai.	33° 03.0' S 17° 54.7' E	Fl.(3)W. period 20s fl. 0.3s, ec. 3s fl. 0.3s, ec. 3s fl. 0.3s, ec. 13.1s	105 32	23	Aluminum lattice tower, rectangular daymark; 70.	
25900 <i>D 5834</i>	--Marcus Island, S. side.	33° 02.7' S 17° 58.2' E	Fl.(2)W. period 10s	56 17	10	Framework tower.	F.R. marks radio mast 8 miles NE.
	--RACON		M(---) period 72s				
25902 <i>D 5836</i>	--Small craft harbor breakwater, head.	33° 01.4' S 17° 57.6' E	Fl.W. period 2s				
25904 <i>D 5838</i>	--Jetty, head.	33° 01.2' S 17° 57.2' E	Q.W.	16 5	3		F.R. on mast 750 meters W.
25908 <i>D 5840</i>	--Slipway jetty, head.	33° 01.2' S 17° 57.0' E	Q.R.	20 6	3		
25916 <i>D 5847</i>	--Ore jetty Range, front.	33° 02.4' S 17° 58.4' E	F.W.		12	Pole.	Occasional.
25920 <i>D 5847.1</i>	--Rear, about 1060 meters 056° from front, jetty, head.	33° 02.1' S 17° 59.0' E	F.W.	46 14	12	Framework tower, green strip; 36.	Horn: 1 bl. ev. 20s.
			F.G.	43 13	12		
25925 <i>D 5843</i>	--Multipurpose quay, head.	33° 00.1' S 17° 59.6' E	Fl.(2)G. period 6s	16 5	3		
25932 <i>D 5841.1</i>	--Ore Concentrates pier, NW. corner.	33° 00.7' S 17° 59.4' E	F.G.				
25936 <i>D 5833</i>	--Elandspunt.	33° 04.1' S 17° 58.5' E	Fl.W. period 5s	112 34	9	Metal framework tower.	
25940 <i>D 5832</i>	--Entrance Range, front.	33° 02.8' S 18° 02.6' E	Q.W.	89 27	9	Lattice tower; 39.	Also shown by day.
25944 <i>D 5832.1</i>	--Rear, 800 meters 080° from front.	33° 02.8' S 18° 03.2' E	Iso.W. period 6s	151 46	12	Lattice tower; 116.	Also shown by day.
	--RACON		C(---) period 72s				
25945 <i>D 5848</i>	--Club Mykonos, W. breakwater, head.	33° 02.9' S 18° 02.4' E	Fl.R. period 2s	23 7	6	White concrete structure; 10.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH AFRICA							
25945.5 <i>D 5849</i>	--E. breakwater, head.	33° 02.8' S 18° 02.4' E	Fl.G. period 2s	20 6	6	White concrete structure; 10.	
25948 <i>D 5831</i>	-S., head.	33° 06.3' S 17° 57.3' E	Fl.(4)W. period 30s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 14.5s	108 33	24	Aluminum latticework tower, rectangular daymark; 68.	
25956 <i>D 5860</i>	Dassen Island.	33° 25.8' S 18° 05.5' E	Fl.(2)W. period 30s fl. 0.3s, ec. 9.7s fl. 0.3s, ec. 19.7s	154 47	26	White round metal tower, red bands, and dwelling; 92.	Radiotelephone. Horn: 1 bl. ev. 15s (bl. 5s, si. 10s). Sounded only when fog approaches within 3 miles of island or on request by radio to Port Captain, Cape Town.
25960 <i>D 5867</i>	Koeberg, N. breakwater.	33° 40.6' S 18° 25.4' E	Fl.Y. period 4s fl. 0.3s, ec. 3.7s	33 10	5	Mast.	Private.
25964 <i>D 5867.1</i>	-S. breakwater.	33° 40.8' S 18° 25.2' E	Fl.Y. period 3s fl. 0.3s, ec. 2.7s	39 12	5	Mast.	Private.
25968 <i>D 5870</i>	Robben Island.	33° 48.9' S 18° 22.5' E	Oc.W.R. period 7s lt. 5s, ec. 2s	154 47	W. 24 R. 12	White round tower, black stripe on E. side; 59.	R. 340°-351°, W.-340°. Horn: (W. extremity of island) 2 bl. ev. 30s. Sounded only when fog approaches within 3 miles, otherwise on request by radio to Port Captain, Cape Town.
25972 <i>D 5880</i>	-Murrays Bay, S. breakwater, head.	33° 47.9' S 18° 22.7' E	Q.(2)R. period 5s fl. 0.3s, ec. 0.7s fl. 0.3s, ec. 3.7s	23 7	5	Red pole; 10.	F.R. lights in range 297°-30° lead into harbor.
25973 <i>D 5880.5</i>	--N. breakwater, head.	33° 47.9' S 18° 22.7' E	Q.(2)G. period 5s fl. 0.3s, ec. 0.7s fl. 0.3s, ec. 3.7s	23 7	5	Green pole; 10.	
25974	<i>Fairway buoy.</i>	33° 51.9' S 18° 25.7' E	Iso.W.			SAFE WATER RW, pillar, topmark.	
	RACON		NW(- • • -)		12		
TABLE BAY:							
25976 <i>D 5910</i>	-Milnerton.	33° 52.9' S 18° 29.3' E	Fl.(3)W. period 20s fl. 0.3s, ec. 3.7s fl. 0.3s, ec. 3.7s fl. 0.3s, ec. 11.7s	89 27	25	White concrete tower; 70.	F.R. light on chimney 4.0 miles SSE. F.R. lights on radio masts 1.2 miles ENE.
			F.R.	79 24	11	Same structure.	Visible 114°-139°.
25980 <i>D 5900</i>	-Green Point.	33° 54.1' S 18° 24.0' E	Fl.W. period 10s	62 19	25	White square tower, red diagonal bands, and red dome; 52.	Visible shore-255°. Horn: 1 bl. ev. 30s.
25984 <i>D 5903</i>	-Granger Bay, Mouille Point, jetty, head.	33° 53.9' S 18° 24.9' E	Q.G.	26 8	5	White pole, green bands.	
25986 <i>D 5905</i>	--S. breakwater, head.	33° 54.0' S 18° 24.9' E	Q.R.	20 6	5	White pole, red bands.	
CAPE TOWN:							
25988 <i>D 5930</i>	-Breakwater, head.	33° 53.9' S 18° 26.1' E	Fl.G. period 2s fl. 0.5s, ec. 1.5s	44 13	5	Metal framework tower.	Horn: Mo.(G) ev. 30s (bl. 5s, si. 2s, bl. 5s, si. 2s, bl. 2s, si. 14s).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH AFRICA							
-Victoria Basin:							
25992 <i>D 5934</i>	--N. side of entrance.	33° 54.1' S 18° 25.6' E	F.G. (neon)	20 6		Framework tower on concrete column.	
25996 <i>D 5934.2</i>	--S. side of entrance.	33° 54.2' S 18° 25.7' E	F.R. (neon)	20 6	6	Framework tower on concrete column.	
-Ben Shoeman Dock:							
26000 <i>D 5935</i>	--Entrance Range, front.	33° 55.1' S 18° 27.3' E	Fl.R. period 4s fl. 1s, ec. 3s	118 36		Framework tower.	
26004 <i>D 5935.1</i>	---Rear, 285 meters 131°30' from front.	33° 55.2' S 18° 27.5' E	Iso.W. period 4s	154 47		Framework tower.	
26008 <i>D 5936</i>	--Channel Range, SW. limit, front.	33° 55.1' S 18° 27.3' E	F.R.	118 36		Framework tower.	
26012 <i>D 5936.1</i>	---Rear, 315 meters 131°30' from front.	33° 55.2' S 18° 27.5' E	F.W.	154 47		Framework tower	
-Schoeman Dock:							
26016 <i>D 5937</i>	--N. wall, head.	33° 54.2' S 18° 26.4' E	Fl.R. period 2s				
26020 <i>D 5938</i>	-N. side of entrance.	33° 54.2' S 18° 26.4' E	F.R.			Mast on concrete column.	F.R. neon strip, over F.R. horizontal strip directional along entrance channel.
26024 <i>D 5938.4</i>	-S. side of entrance.	33° 54.4' S 18° 26.3' E	F.G.			Mast on concrete column.	F.G. neon strip, over F.G. horizontal strip directional along entrance channel
26028 <i>D 5939</i>	-Ro-Ro Jetty, head.	33° 55.0' S 18° 27.0' E	Q.Y.	30 9	5		
-Duncan Dock:							
26032 <i>D 5940</i>	--N. mole, spur jetty, head.	33° 54.3' S 18° 26.2' E	Fl.G. (neon) period 2s				
26036 <i>D 5942</i>	--N. Mole, head.	33° 54.4' S 18° 26.2' E	F.G. (neon)	23 7	11		
26040 <i>D 5943</i>	--Eastern Mole, head.	33° 54.5' S 18° 26.0' E	F.R. (neon)	23 7	9		
26044 <i>D 5953</i>	-Lay-Up Basin, W. mole, head.	33° 55.0' S 18° 27.0' E	F.G. (neon)	16 5	5	Concrete column.	
26048 <i>D 5954</i>	--E. mole, head.	33° 55.1' S 18° 27.0' E	F.R. (neon)	16 5	5	Concrete column.	
26049 <i>D 5929</i>	--Entrance Range, front.	33° 54.9' S 18° 25.9' E	Q.R.	138 42	13	Gray mast.	
26049.1 <i>D 5929.1</i>	---Rear, 710 meters 198°30' from front.	33° 55.3' S 18° 25.8' E	Oc.W. period 3s lt. 2.8s, ec. 0.2s	256 78	19	On building.	
26050 <i>D 5958</i>	--Landing wharf.	33° 54.8' S 18° 26.5' E	Q.Y.				
26051 <i>D 5960</i>	--Repair pier, head.	33° 54.9' S 18° 26.4' E	F.Y.				
26056 <i>D 6000</i>	Houtbaai, S. breakwater, head.	34° 03.1' S 18° 21.1' E	Fl.W. period 3s	16 5	4	Orange hut.	Q.R. lights are shown near summit of Constantiaberg 1.8 miles 097°.
26060 <i>D 6002</i>	-N. breakwater.	34° 03.0' S 18° 21.0' E	Fl.G. period 2s	20 6	2	Orange hut.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH AFRICA							
26064 <i>D 6110</i>	Siangkoppunt.	34° 09.0' S 18° 19.2' E	Fl.(4)W. period 30s fl. 0.6s, ec. 3.9s fl. 0.6s, ec. 3.9s fl. 0.6s, ec. 3.9s fl. 0.6s, ec. 15.9s	131 40	30	White cylindrical tower; 108.	
SOUTH ATLANTIC ISLANDS							

ASCENSION ISLAND (U.K.):

-Clarence Bay

26072 <i>D 4800</i>	--Entrance Range, front, near Redpole Monument.	7° 55.7' S 14° 24.7' W	F.G.	90 27	5	White concrete pillar, two black bands; 15.	Shown only when vessels are seen approaching the bay. Q.R., 2 F.R. (vert.) on white radio mast 1.1M S.
26076 <i>D 4800.1</i>	---Rear, 61 meters 140° from front.	7° 55.6' S 14° 24.5' W	F.G.	115 35	5	White concrete pillar, two black bands; 15.	Shown when vessels are approaching the bay.
26080 <i>D 4804</i>	--Harbor Range, front.	7° 54.6' S 14° 24.3' W	F.W.	152 46		White mast, red bands; 60.	F.R. on radio mast 930 meters NNE.
26084 <i>D 4804.1</i>	---Rear, about 37 meters 050° from front.	7° 54.4' S 12° 24.2' W	F.W.	182 55		White mast, red bands; 90.	Radar building marked by W.R. lights 45 meters NE.
26092 <i>D 4812</i>	--Near Zymotic Hopsital.	7° 55.9' S 14° 25.1' W	F.R.	70 21	4	White concrete pillar, red diagonal stripe; 16.	

ST. HELENA (U.K.):

-James Bay:

26100 <i>D 4904</i>	--Entrance Range, front.	15° 55.5' S 5° 43.2' W	Fl.G. period 3s	469 143	3	White triangular beacon; 6.	
26104 <i>D 4904.1</i>	---Rear, about 98 meters 172° from front.	15° 55.6' S 5° 43.2' W	Iso.G. period 8s	558 170	3	White triangular beacon; 6.	
26108 <i>D 4906</i>	-Beacon.	15° 55.0' S 5° 43.0' W	Fl.(2)R. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	82 25	3	Mast, NW. corner of building, white triangle, point up.	Visible 097°-241°.
26112 <i>D 4908</i>	-Buttermilk Point.	15° 54.2' S 5° 42.4' W	Fl.(2)W. period 10s	120 37	10		Visible 053°-233° (180°).

Section 18

Radiobeacons

(1) No.	(2) Name	(3) Position	(4) Characteristic	(5) Range	(6) Sequence	(7) Frequency	(8) Remarks
SPAIN							
140	Cabo Machichaco Light Station	43° 27.2' N 2° 45.2' W	MA (-- •-).	100		284.5 A1A.	Reliable sector 110°-220°.
150	Cabo Mayor Light Station	43° 29.4' N 3° 47.5' W	MY (-- -•-•-).	50		304.5 A1A.	
160	Llanes Light Station	43° 25.2' N 4° 44.9' W	IA (•• •-).	50		303.5 A1A.	
170	Cabo Penas Light Station	43° 39.3' N 5° 50.9' W	PS (•--• ••).	50		297.5 A1A.	
180	Punta Estaca de Bares Light Station	43° 47.2' N 7° 41.1' W	BA (-••• •-).	100		309.5 A1A.	
210	Cabo Villano Light Station	43° 09.6' N 9° 12.7' W	VI (•••- ••).	100		290.5 A1A.	
220	Cabo Finisterre Light Station	42° 52.9' N 9° 16.3' W	FI (••-• ••).	100		288.5 A1A.	
230	Cabo Estay Light Station	42° 11.1' N 8° 48.8' W	VS (•••- ••).	50		312.5 A1A.	
240	Cabo Sillero Light Station	42° 06.2' N 8° 53.8' W	RO (•-• -•-).	100		293.5 A1A.	Reliable sector 020°-145°.
370	Rota	36° 37.7' N 6° 22.7' W	D (-••).	80		303 A1A.	
390	Tarifa Light Station	36° 00.2' N 5° 36.5' W	O (-•-).	50		299 A1A.	
400	Malaga Light Station	36° 42.6' N 4° 24.8' W	GA (-•• •-).	50		305 A1A.	
410	Cabo de Gata Light Station	36° 43.4' N 2° 11.5' W	TA (- •-).	50		298 A1A.	
420	Cabo de Palos	37° 38.1' N 0° 41.4' W	PA (•--• •-).	50		313 A1A.	
430	Cabo de la Nao Light Station	38° 43.8' N 0° 14.2' E	NO (-• -•-).	50		294.6 A1A.	
440	Casteelon de la Plana Light Station	39° 58.1' N 0° 01.1' E	AS (•- ••).	50		310.5 A1A.	
450	Cabo de Salou Light Station	41° 03.3' N 1° 10.2' E	UD (••- -••).	50		288.5 A1A.	
460	Punta del Llobregat Light Station	41° 19.5' N 2° 09.0' E	OR (-•- •-•).	50		303.5 A1A.	
470	Cabo San Sebastian Light Station	41° 53.9' N 3° 12.1' E	SN (••• -•).	50		291 A1A.	
480	Mahon, Menorca	39° 51.9' N 4° 18.3' E	MH (-- •••).	100		292 A1A.	
490	Punta de Cala Figuera, Mallorca	39° 27.5' N 2° 31.4' E	FI (••-• ••).	50		286.5 A1A.	
ITALY							
560	Cabo Sandalo Light Station, Sardinia	39° 08.8' N 8° 13.4' E	IP (•• •-•).	130		310 A1A.	

(1) No.	(2) Name	(3) Position	(4) Characteristic	(5) Range	(6) Sequence	(7) Frequency	(8) Remarks
ITALY							
570	Livorno Light Station	43° 37.7' N 10° 17.7' E	LI (•--- ••).	130		298 A1A.	
580	Civitavecchia Light Station	42° 05.8' N 11° 49.1' E	CH (---• ••••).	100	I, II	297 A1A.	
600	Capo Ferro Light Station, Sardegna	41° 09.3' N 9° 31.5' E	CF (---• ••---).	130	V, VI	291 A2A.	
610	Punta Carena Light Station	40° 32.2' N 14° 12.1' E	NP (--- •---).	180	I, II	289.5 A1A.	
620	Capo San Vito Light Station	38° 11.2' N 12° 44.0' E	LC (•--- ---•).	180	III, IV	292 A1A.	
630	Capo Vaticano Light Station	38° 37.1' N 15° 49.7' E	VN (•••--- ---).	130	V, VI	284 A1A.	
650	Cozzo Spadaro Light Station, Sicilia	36° 41.1' N 15° 08.0' E	PZ (•---• ---••).	130	III, IV	286.5 A1A.	
660	Augusta Light Station, Sicilia	37° 13.0' N 15° 13.6' E	AT (•--- -).	180	V, VI	294 A1A.	
670	Capo San Vito Light Station	40° 24.6' N 17° 12.3' E	TN (--- ---•).	100		311 A1A.	
680	Capo Santa Maria de Leuca Light Station	39° 47.7' N 18° 22.2' E	MC (--- ---•---).	130	I, II	287.5 A1A.	
690	Vieste Light Station	41° 53.3' N 16° 11.1' E	VS (•••--- •••).	130	III, IV	299.5 A1A.	
700	Punta della Penna Light Station	42° 10.0' N 14° 42.5' E	TL (--- ••••).	180	I, II	314.5 A1A.	
710	San Benedetto del Tronto Light Station	42° 57.5' N 13° 53.0' E	CI (---• ••).	180	III, IV	309 A1A.	
720	Senigallia Light Station	43° 43.1' N 13° 13.3' E	SA (••• ---).	180	I, II	311.5 A1A.	
730	Punta della Maestra Light Station	44° 58.1' N 12° 31.7' E	ME (--- •).	180	V, VI	304 A1A.	
740	Trieste Light Station	45° 40.5' N 13° 45.5' E	RD (•--- ---•).	130		299 A1A.	
CROATIA							
750	Kamenjak	44° 47.2' N 13° 54.9' E	YP (---• ---•).	100		298.8 A2A.	Transmits continuously during periods of low visibility. During periods of clear weather, transmits at 20, 26, 50 and 56 minutes past each hour.
760	Rijeka Calibration Radiobeacon	43° 56.0' N 14° 32.0' E				312.6 A1A.	Transmits on request to Rijeka (9AR) Coast Radio Station.
780	Movar	43° 30.3' N 15° 58.0' E	YV (---• •••---).	100		289.6 A2A.	Transmits continuously during periods of low visibility. During periods of clear weather, transmits at 16, 22, 46 and 52 minutes past each hour.
790	Split Calibration Radiobeacon	43° 30.0' N 16° 27.6' E				312.6 A1A.	Transmits on request to Split (9AS) Coast Radio Station.
800	Dubrovnik	42° 40.0' N 18° 02.0' E	KLP (---• ---• ••---).	25		318 A2A.	AERO.
810	Dubrovnik Calibration Radiobeacon	42° 38.0' N 18° 06.0' E				410 A1A.	Transmits on request to Dubrovnik (9AD) Coast Radio Station.
820	Cavtat Light Station	42° 35.1' N 18° 12.8' E	CV (---• •••---).	25		397 A1A.	

(1) No.	(2) Name	(3) Position	(4) Characteristic	(5) Range	(6) Sequence	(7) Frequency	(8) Remarks
CROATIA							
830	Molunat	42° 27.1' N 18° 25.6' E	YC (-•--- -•-•).	100		305.7 A2A.	Transmits continuously during periods of low visibility. During periods of clear weather, transmits at 10, 16, 40 and 46 minutes past each hour.
840	Bar Calibration Radiobeacon	42° 04.0' N 19° 10.0' E				410.5 A1A.	Transmits on request to Bar (YUW) on VHF Ch 16.
MALTA							
850	Valletta Calibration Radiobeacon	35° 53.9' N 14° 31.7' E				310 N0N.	Transmits on request to Commercial and Sales Manager, Malta Drydocks. 4 hour notice required. Yellow light shown during transmission.
860	Gozo	36° 02.2' N 14° 12.4' E	GZO (--• --•• --).	92		320 N0N, A2A.	AERO.
GREECE							
880	Kos	36° 47.8' N 27° 05.5' E	KOS (-•- --- ••).	50		311.5 A2A.	AERO.
890	Thira	36° 23.9' N 25° 28.8' E	THR (- •••• •-•).	80		307 A2A.	AERO.
900	Sounion	37° 40.1' N 24° 02.7' E	SUN (••• ••- -•).	50		319 A2A.	AERO.
910	Karystos	38° 00.8' N 24° 25.0' E	KRS (-•- ••- ••).	50		285 A2A.	AERO.
920	Axios	40° 30.7' N 22° 44.9' E		130		287.3 A1A.	Does not transmit in clear weather.
REMARKS: Directional signal AWAE (•- •-- •- •) transmitted once every minute. When on course 340° (toward station), all letters of signal heard at equal strength. Signal AW (•- •--) louder when west of course line, AE (•- •) louder when east of course line. Horns at radiobeacon and Akra Megalo Emvolon light station (40°30'10"N 22°49'01"E) synchronized for distance finding. Five second blast of horn at radiobeacon and two second blast of horn at light station each begin simultaneously with series of directional dashes. Number of dashes heard before either horn signal, multiplied by 1000, gives distance in feet from that station.							
930	Thessaloniki	40° 36.7' N 22° 57.1' E		130		308 A1A.	Does not transmit in clear weather.
REMARKS: Directional signal TNTS (- -• - •••) transmitted once every minute. When on course 050° (toward station), all letters of signal heard at equal strength. Signal TN (- -•) louder when north of course line, TS (- •••) louder when south of course line. Synchronized for distance finding. Five second blast of horn begins simultaneously with series of directional dashes. Number of dashes heard before horn signal, multiplied by 1000, gives distance in feet from radiobeacon.							
ROMANIA - BULGARIA							
950	Constanta Light Station, Romania	44° 09.5' N 28° 37.9' E	CT (-•-• -).	100	III	291.5 A2A.	
960	Nos Kaliakra Light Station, Bulgaria	43° 21.5' N 28° 27.8' E	KL (-•- •-••).	100	IV	291.5 A2A.	
970	Nos Emine Light Station, Bulgaria	42° 42.0' N 27° 54.1' E	EI (• ••).	100	V	291.5 A2A.	
980	Maslen Nos Light Station, Bulgaria	42° 18.0' N 27° 47.1' E	MN (-- -•).	100	VI	291.5 A2A.	

(1) No.	(2) Name	(3) Position	(4) Characteristic	(5) Range	(6) Sequence	(7) Frequency	(8) Remarks
UKRAINE							
990	Ostrov Zmeinyy Light Station	45° 14.9' N 30° 11.7' E	ZM (--•• --).	100		294.5 A2A.	
1000	Il'chevskiy Light Station	46° 18.9' N 30° 40.8' E	lCh (•• ----).	25		300.5 A1A.	
1010	Mys Yevpatoriyskiy Light Station	45° 09.0' N 33° 16.2' E	EYa (• •-•-).	150	I	309.5 A1A.	
1020	Odesskiy Light Station (Mys Bol'shoy Fontan)	46° 22.7' N 30° 44.7' E	OD (--- -••).	150	II	309.5 A2A.	
1030	Vorontsovskiy Light Station (Odessa)	46° 29.8' N 30° 45.6' E	WR (•-- •-•).	100	III	309.5 A1A.	
1040	Tendrovskiy Light Station	46° 19.3' N 31° 30.9' E	TD (- -••).	150	IV	309.5 A1A.	
1050	Mys Tarkhankutskiy Light Station	45° 20.9' N 32° 29.6' E	TR (- •-•).	150	V	309.5 A1A.	
1060	Mys Khersonesskiy Light Station	44° 34.9' N 33° 23.0' E	SW (••• •-•).	150	VI	309.5 A1A.	
1070	Mys Aytodorskiy Light Station	44° 25.6' N 34° 07.5' E	AT (•- -).	150	I	312.5 A1A.	
1080	Mys Il'inskiy Light Station	45° 01.0' N 35° 25.7' E	IL (•• •-••).	150	II	312.5 A1A.	
1090	Mys Kyz-Aul Light Station	45° 03.8' N 36° 22.4' E	KA (-•- •-).	150	III	312.5 A1A.	
1100	Mys Doobskiy Light Station, Russia	44° 37.5' N 37° 54.6' E	DB (-•• -•••).	150	IV	312.5 A1A.	
1110	Mys Zheleznyy Rog Light Station, Russia	45° 06.8' N 36° 44.4' E	VR (•••- •-•).	100	V	312.5 A1A.	
1120	Mys Anapskiy Light Station, Russia	44° 53.3' N 37° 18.0' E	AP (•- ----).	150	VI	312.5 A1A.	
1130	Yenikal'skiy Light Station	45° 23.1' N 36° 38.4' E	EN (• -•).	150	I	300.5 A2A.	
1140	Belosarayskiy Light Station	46° 52.9' N 37° 19.6' E	BS (-••• •••).	150	III	300.5 A2A.	
1150	Berdyanskiy Nizhniy Light Station	46° 38.1' N 36° 45.7' E	NB (-• -•••).	150	IV	300.5 A2A.	
1160	Temryukskiy Light Station, Russia	45° 19.8' N 36° 14.0' E	TK (- -•-).	150	V	300.5 A2A.	
GEORGIA							
1170	Pitsundskiy Light Station	43° 09.2' N 40° 21.5' E	PC (•--• -•-•).	150	I	297.5 A2A.	
1200	Batumskiy Light Station	41° 39.2' N 41° 38.5' E	BT (-••• -).	150	IV	297.5 A2A.	
1210	Mys Kodoshskiy Light Station, Russia	44° 05.9' N 39° 02.4' E	KD (-•- -••).	150	V	297.5 A2A.	
1220	Sochinskiy Light Station, Russia	43° 34.8' N 39° 43.4' E	SCh (••• ----).	150	VI	297.5 A2A.	

(1) No.	(2) Name	(3) Position	(4) Characteristic	(5) Range	(6) Sequence	(7) Frequency	(8) Remarks
TURKEY							
1240	Kefken Adasi	41° 13.0' N 30° 17.1' E	KF (-•- ••-).	150	III, IV	301.1 A2A.	Transmits continuously during periods of low visibility. During periods of clear weather transmits at 02, 08, 32 and 38 minutes past each hour.
1250	Finike	36° 16.7' N 30° 09.2' E	FR (••- •-).	300		303.4 A2A.	Transmits continuously during periods of low visibility. During periods of clear weather transmits on the hour and half-hour.
SYRIA - ISRAEL							
1270	Banias, Syria	35° 13.7' N 35° 57.6' E	BAN (-•• •- -).	130		304 A2A.	Aeromarine.
1290	Haifa (Mount Carmel) Light Station, Israel	32° 49.7' N 34° 58.1' E	HA (••• •-).	80		287.3 A2A.	
EGYPT							
1300	Port Said Light Station	31° 16.3' N 32° 17.2' E	PS (•-- ••).	50		310.5	
1310	Damietta Mouth East Light Station	31° 31.4' N 31° 50.8' E	DA (-• •-).	150		310.5	
1320	Burullus Light Station	31° 35.9' N 31° 04.7' E	BR (-•• •-).	50		310.5	
1330	Rosetta	31° 26.5' N 30° 25.8' E	RO (•- - -).	50		303.5	
1340	Great Pass Low Light Station	31° 09.3' N 29° 50.8' E	AL (•- •-•).	150		303.5	
1350	Ras el Shaiq Light Station	30° 57.2' N 28° 49.7' E	HQ (••• - -•-).	50		303.5	
LIBYA							
1360	Es Sider	30° 37.6' N 18° 21.1' E	OJ (--- •- -).	80		300 N0N, A2A.	AERO.
1370	Tarabulus	32° 54.0' N 13° 12.4' E	TRI (- •- ••).	20		288 A2A.	
TUNISIA							
1380	El Attaia	34° 44.3' N 11° 17.8' E	KR (-•- •-).	100		298.5 A1A.	
1390	Cap Bon	37° 04.4' N 11° 03.0' E	BN (-•• -).	200		296.5 A1A.	
1400	Cap Blanc	37° 19.8' N 9° 50.1' E	BC (-•• -•-).	100		309.5 A1A.	Aeromarine.
ALGERIA							
1410	Bejaia Light Station	36° 45.1' N 5° 06.1' E	BI (-•• ••).	10		314.5 A1A.	

(1) No.	(2) Name	(3) Position	(4) Characteristic	(5) Range	(6) Sequence	(7) Frequency	(8) Remarks
ALGERIA							
1430	Ras Matifou Light Station	36° 48.7' N 3° 14.8' E	MF (-- ••-•).	30		291.5 A1A.	
1440	Algiers Light Station	36° 46.7' N 3° 04.8' E	AL (•- •-••).	20		309.5 A1A.	
1450	Ras Caxine Light Station	36° 48.7' N 2° 57.0' E	CX (-•-• •-•-).	200		287 A1A.	
1460	Ras Tenes Light Station	36° 33.1' N 1° 20.7' E	TS (- •••).	30		313.5 A1A.	
1470	Mostaganem	35° 56.0' N 0° 04.2' E	MN (-- -•).	5		301 A1A.	
1480	Ras Aiguille Light Station	35° 52.7' N 0° 29.3' W	AG (•- --•).	100		296.5 A1A.	
MOROCCO							
1490	Tetouan	35° 37.0' N 5° 17.0' W	TUN (- ••- -•).	100		388 N0N, A2A.	AERO.
1500	Ceuta (Dique de Poniente Light Station), Spain	35° 53.8' N 5° 18.7' W	CE (-•-• •).	50		311 A1A.	
1510	Cap Spartel	35° 47.1' N 5° 55.6' W	SP (••• ---•).	200		312 A1A.	
1520	Casablanca (Table d'Oukacha)	33° 37.1' N 7° 33.9' W	AK (•- --•-).	20		308 A1A.	
1530	Pointe el Hank Light Station	33° 36.8' N 7° 39.3' W	HA (•••• •-).	100		301 A1A.	
AZORES							
1540	Flores	39° 27.0' N 31° 10.0' W	FLO (••-• •-•• ---).	250		270 N0N, A2A.	AERO.
1550	Graciosa	39° 05.8' N 28° 00.9' W	GRA (--• •-• •-).	100		283 N0N, A2A.	AERO.
1560	Lajes	38° 47.0' N 27° 07.0' W	GP (--• •-••).	50		341 A2A.	AERO.
1570	Santa Maria	37° 00.0' N 25° 11.0' W	SMA (••• -- •-).	300		323 N0N, A2A.	AERO.
MADEIRA							
1580	Porto Santo	33° 04.0' N 16° 21.0' W	PST (•--• •• -).	250		338 N0N, A2A.	AERO.
1590	Funchal	32° 45.0' N 16° 42.0' W	MAD (-- •- -••).	50		318 N0N, A2A.	AERO.
CANARY ISLANDS							
1600	Reina Sofia	28° 03.0' N 16° 34.0' W	TES (- • •••).	25		317 A2A.	AERO.
1610	La Isleta Light Station	28° 10.3' N 15° 25.0' W	LT (•-•• -).	100	I, II	291.9 A2A.	

(1) No.	(2) Name	(3) Position	(4) Characteristic	(5) Range	(6) Sequence	(7) Frequency	(8) Remarks
CANARY ISLANDS							
1620	Punta Lantailla Light Station	28° 13.7' N 13° 56.8' W	NA (-• •-).	100	III, IV	291.9 A2A.	
1630	Lanzarote	28° 57.0' N 13° 37.0' W	LZ (•-•• -•-•).	50		310 A2A.	AERO.
CAPE VERDE							
1640	Monte Verde, Ilha de Sao Vicente	16° 52.0' N 24° 56.0' W	VE (•••- •).	100		308 A2A.	
1650	Sal	16° 42.0' N 22° 57.0' W	SAL (••• •- •-••).	350		274 A1A.	AERO.
1660	Ponta Moreia Light Station	15° 20.1' N 23° 45.2' W	MO (-- •••).	100		308 A2A.	
AFRICA - WEST COAST							
1680	Nouakchott, Mauritania	18° 05.0' N 15° 58.0' W	KC (-•- -•-•).	100		297 A1A.	AERO.
1690	Saint Louis, Senegal	16° 03.0' N 16° 27.3' W	SLO (••• •-•• -•-•).	45		355 A1A.	AERO.
1700	Dakar, Senegal	14° 42.9' N 17° 28.6' W	SDS (••• -•• •••).	170		323 A1A.	AERO.
1710	Kamsar, Guinea	10° 40.0' N 14° 36.0' W	KAM (-•- •- -•).	150		308 A1A.	AERO.
1720	Koundinde Light Station, Guinea	10° 15.0' N 14° 26.0' W	KD (-•- -••).	100		305 A1A.	
1730	Freetown (Aberdeen Hill), Sierra Leone	8° 29.9' N 13° 17.3' W	FF (••-• ••-•).	100		296.5	
1750	Sassandra, Ivory Coast	4° 56.0' N 6° 08.2' W	SS (••• •••).	100		290 A1A.	AERO.
1760	Port Bouet Light Station, Ivory Coast	5° 14.7' N 3° 57.4' W	PB (•-•• -•••).	100		294.2 A2A.	Aeromarine.
1770	Takoradi, Ghana	4° 54.1' N 1° 45.0' W	TI (- ••).	90		375 NON, A2A.	AERO.
1780	Cotonou, Benin	6° 22.2' N 2° 24.5' E	CO (-••• -•-•).	155		284 A1A.	AERO.
1790	Escravos, Nigeria	5° 36.6' N 5° 11.2' E	ES (• •••).			305 A1A.	AERO.
1800	Malabo, Bioko, Equatorial Guinea	3° 46.2' N 8° 43.5' E	BL (-••• •-••).	50		310 A1A.	AERO.
1810	Bata, Equatorial Guinea	1° 51.6' N 9° 46.2' E	BT (-••• -•).			325 A1A.	AERO.
1830	Port Gentil, Gabon	0° 41.6' S 8° 45.7' E	PG (•-•• -•-•).	100		367 A1A.	AERO.
1835	Gamba Oil Terminal, Gabon	2° 48.4' S 10° 04.8' E	GZ (-•• -•-•).	100		359 A1A.	AERO.
1840	Pointe Noire, Congo	4° 50.0' S 11° 53.0' E	PNR (•-•• -• •-•).	80		323 A1A.	AERO.
1850	Ascension Island	7° 56.7' S 14° 24.8' W	ASN (•- ••• -•).			360 NON, A2A.	AERO.

(1) No.	(2) Name	(3) Position	(4) Characteristic	(5) Range	(6) Sequence	(7) Frequency	(8) Remarks
ANGOLA							
1860	Cabinda	5° 37.0' S 12° 12.0' E	CA (-•-• •-).	100		280 N0N, A2A.	AERO.
1870	Soyo	6° 08.3' S 12° 22.4' E	SZ (••• ---•).	75		310 N0N, A1A.	AERO.
1880	N'gunza	11° 10.3' S 13° 51.0' E	NR (-• •-•).	50		320 N0N, A2A.	AERO.
1890	Mocamedes	15° 11.0' S 12° 11.0' E	MO (-- ---).	50		358 A2A.	AERO.

Section 19

Differential GPS Stations

(1) No.	(2) Name	(3) Position	(4) Station ID	(5) Range	(6) Frequency	(7) Transfer Rate	(8) Remarks
EGYPT							
1300	Alexandria	31° 09.2' N 29° 50.8' E	T 320 R 440 R 441	150	284		
1310	Port Said	31° 16.4' N 32° 17.5' E	T 321 R 442 R 443	126	290		
1320	Mersa Matrouh	31° 21.5' N 27° 14.8' E	T 324 R 448 R 449	150	307		

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Acciaroli	9640	Akra Dhoukaton	14572	Akra Melangavi	14844
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0265.6		4830	D0874		300	D0971.1		565.1	D1088		860
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4453.91		16443.1	D0877		296	D0975		560	D1090.1		872
A1518		12	D0877.1		288	D0976		568	D1091		862
A1519		8	D0884		304	D0976.1		572	D1093		876
A1842		16	D0885		320	D0978		576	D1093.1		880
A1843		18	D0885.1		324	D0978.1		580	D1094		864
A1844		4	D0886		312	D0982		592	D1095		928
A1846		20	D0886.1		316	D0984		588	D1096		896
A1848		24	D0887		328	D0985		584	D1098		884
A1850		32	D0887.1		332	D0986		596	D1100		888
A1852		36	D0890		308	D0990		600	D1102		892
A1854		48	D0892		344	D0990.1		604	D1104		944
A1856		52	D0893		336	D0994		608	D1104.2		962
A1860		60	D0894		348	D0996		612	D1104.4		960
A1862		56	D0896		364	D0996.1		616	D1105		920
A1870		40	D0896.05		366	D0996.3		598	D1105.5		916
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A1872		92	D0898		380	D0997		618	D1106.1		952
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A1876		80	D0902		388	D1014		636	D1124		976
A1880		88	D0904		392	D1015		676	D1126		980
A1884		112	D0904.5		393	D1015.1		680	D1127		982
A1886		116	D0906		400	D1016		672	D1128		984
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D0850		274	D0954.1		524	D1074		812	D1167		1100
D0852		248	D0960		528	D1075.8		848	D1168		1104
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Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
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D1191		1176	D1272		1416	D1413		1664	D1524.6		1911
D1193		1172	D1274		1422	D1413.1		1668	D1525		1912
D1196		1180	D1274.4		1423	D1414		1680	D1525.5		1910.5
D1198		1184	D1274.6		1422.5	D1416		1684	D1526		1916
D1200		1212	D1276		1424	D1418		1688	D1526.4		1908
D1204		1216	D1277		1428	D1420		1692	D1526.6		1910
D1204.1		1220	D1278		1432	D1422		1696	D1527		1920
D1207		1196	D1278.1		1436	D1424		1700	D1527.2		1924
D1207.1		1200	D1284		1444	D1424.1		1704	D1527.22		1928
D1210		1204	D1285		1448	D1425		1708	D1527.4		1932
D1210.1		1208	D1285.1		1452	D1452		1712	D1527.42		1936
D1211		1222	D1286		1456	D1453		1724	D1528		1938
D1211.1		1222.1	D1286.4		1460	D1454		1717	D1528.2		1938.1
D1213		1224	D1286.6		1464	D1454.3		1716	D1529		1940
D1213.2		1232	D1287		1468	D1454.6		1720	D1530		1939
D1213.4		1236	D1287.5		1440	D1456		1728	D1531		1944
D1213.6		1228	D1288.4		1472	D1456.2		1730	D1532		1948
D1214		1240	D1289		1478	D1456.4		1731	D1532.4		1956
D1215		1244	D1290		1476	D1457		1732	D1532.6		1952
D1216		1260	D1293.9		1488	D1457.5		1734	D1535		1960
D1218		1268	D1294		1492	D1458		1736	D1536		1964
D1220		1272	D1294.1		1496	D1459		1740	D1537		1972
D1220.1		1276	D1300		1480	D1459.1		1744	D1537.2		1976
D1223		1280	D1304		1536	D1460		1748	D1540		1980
D1223.1		1284	D1307		1544	D1462		1752	D1542		1984
D1226		1292	D1308		1540	D1466		1764	D1546		1992
D1228		1296	D1310		1500	D1468		1756	D1546.1		1996
D1230		1300	D1310.1		1504	D1470		1760	D1547		2000
D1232		1304	D1312		1508	D1472		1768	D1548		2004
D1232.1		1308	D1312.1		1512	D1474		1772	D1548.2		2008
D1234		1312	D1313		1505	D1475		1776	D1549		2012
D1238		1324	D1313.2		1506	D1476		1780	D1552		2016
D1240		1316	D1314		1516	D1476.2		1784	D1554		2020
D1242		1256	D1316		1520	D1482		1792	D1556		2024
D1243		1352	D1326		1524	D1483		1788	D1556.5		2026
D1244		1328	D1327		1532	D1484		1796	D1556.51		2026.1
D1244.4		1336	D1327.2		1533	D1484.1		1800	D1557		2028
D1244.6		1332	D1372		1556	D1488.2		1802	D1558		2036
D1244.7		1340	D1378		1560	D1489		1804	D1558.2		2032
D1244.8		1348	D1380		1576	D1493		1808	D1559.4		2048
D1245		1344	D1382		1580	D1494		1812	D1559.42		2050
D1246		1344.5	D1384		1584	D1494.2		1816	D1559.45		2052
D1247		1345	D1386		1588	D1495		1820	D1559.6		2054
D1247.1		1345.1	D1386.5		1592	D1496		1824	D1559.61		2054.1
D1247.5		1351	D1387		1596	D1496.1		1828	D1559.8		2056
D1248		1351.5	D1387.2		1600	D1498		1832	D1561		2060
D1248.5		1351.7	D1387.21		1604	D1499		1836	D1562		2064
D1249		1360	D1387.3		1608	D1502		1840	D1563		2068
D1250		1380	D1387.4		1612	D1504		1844	D1563.1		2072
D1251		1364	D1387.5		1616	D1505		1856	D1566		2076
D1251.1		1368	D1388		1620	D1506		1848	D1566.1		2080
D1254		1381	D1388.1		1624	D1508		1852	D1568		2084
D1254.2		1382	D1390		1624.5	D1510		1860	D1568.1		2088
D1256		1384	D1390.5		1625	D1510.4		1864	D1570		2092
D1256.3		1385	D1391		1633	D1512		1868	D1574		2096
D1257		1400	D1391.2		1633.5	D1513		1872	D1576		2100
D1257.1		1404	D1392		1634	D1513.2		1876	D1577		2104

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
D1578	.....	2108	D1664.1	.....	2360	D1718	.....	2592	D1847	.....	2836
D1580	.....	2112	D1673	.....	2368	D1720	.....	2596	D1848	.....	2840
D1582	.....	2116	D1676	.....	2376	D1722	.....	2580	D1850	.....	2844
D1586	.....	2120	D1678	.....	2404	D1722.2	.....	2584	D1855	.....	2848
D1587	.....	2124	D1678.2	.....	2380	D1723	.....	2588	D1856	.....	2852
D1589	.....	2128	D1678.21	.....	2384	D1724	.....	2600	D1858	.....	2854
D1591	.....	2130	D1678.3	.....	2388	D1724.1	.....	2604	D1860	.....	2856
D1592	.....	2132	D1678.31	.....	2392	D1725	.....	2606	D1862	.....	2860
D1596	.....	2204	D1678.4	.....	2396	D1726	.....	2608	D1864	.....	2864
D1597	.....	2196	D1678.6	.....	2400	D1728	.....	2612	D1865.6	.....	2866
D1597.4	.....	2200	D1678.8	.....	2410	D1729	.....	2613	D1866	.....	2868
D1598	.....	2152	D1679	.....	2412	D1730	.....	2616	D1867	.....	2872
D1598.3	.....	2160	D1680	.....	2416	D1732	.....	2628	D1868.4	.....	2876
D1598.4	.....	2156	D1681	.....	2420	D1733	.....	2620	D1870	.....	2880
D1598.45	.....	2188	D1684	.....	2432	D1734	.....	2624	D1871	.....	2884
D1598.5	.....	2187	D1685	.....	2440	D1736	.....	2632	D1872	.....	2888
D1598.7	.....	2184	D1685.11	.....	2441	D1736.3	.....	2644	D1873	.....	2896
D1598.8	.....	2186	D1685.12	.....	2442	D1736.4	.....	2648	D1873.4	.....	2900
D1599	.....	2192	D1685.2	.....	2436	D1737	.....	2656	D1874	.....	2904
D1602	.....	2168	D1686	.....	2444	D1738	.....	2636	D1876	.....	2908
D1603	.....	2172	D1686.1	.....	2446	D1739	.....	2640	D1876.1	.....	2912
D1603.2	.....	2173	D1686.2	.....	2447	D1740	.....	2660	D1882	.....	2916
D1606.5	.....	2166	D1686.3	.....	2450	D1742	.....	2664	D1884	.....	2920
D1608	.....	2136	D1686.5	.....	2448	D1744	.....	2666	D1886	.....	2924
D1609	.....	2140	D1687	.....	2452	D1756	.....	2680	D1888	.....	2928
D1610	.....	2148	D1687.6	.....	2454	D1758	.....	2676	D1889	.....	2932
D1614	.....	2208	D1688	.....	2456	D1760	.....	2668	D1890	.....	2940
D1616	.....	2212	D1690	.....	2458	D1762	.....	2672	D1890.1	.....	2944
D1616.1	.....	2216	D1692	.....	2460	D1775	.....	2682	D1891	.....	2936
D1618	.....	2220	D1694	.....	2464	D1782	.....	2684	D1892	.....	2960
D1622	.....	2228	D1695	.....	2468	D1784	.....	2688	D1893	.....	2948
D1622.1	.....	2232	D1696	.....	2476	D1786	.....	2692	D1894	.....	2956
D1624	.....	2224	D1696.1	.....	2480	D1788	.....	2696	D1894.5	.....	2962
D1628	.....	2236	D1697	.....	2484	D1790	.....	2712	D1895	.....	2964
D1630	.....	2240	D1698	.....	2508	D1791	.....	2710	D1895.4	.....	2968
D1630.4	.....	2238	D1698.4	.....	2504	D1791.2	.....	2711	D1895.6	.....	3016
D1631	.....	2244	D1698.6	.....	2510	D1792	.....	2700	D1895.7	.....	2978
D1634	.....	2248	D1698.7	.....	2513	D1794	.....	2716	D1895.8	.....	2976
D1634.2	.....	2252	D1698.84	.....	2512	D1795	.....	2720	D1895.9	.....	2980
D1635	.....	2256	D1698.9	.....	2516	D1796	.....	2724	D1896	.....	2972
D1635.1	.....	2260	D1698.92	.....	2520	D1798	.....	2732	D1897	.....	3004
D1636	.....	2264	D1698.94	.....	2524	D1799	.....	2736	D1898	.....	2988
D1638	.....	2268	D1698.96	.....	2528	D1799.5	.....	2738	D1900	.....	2992
D1638.4	.....	2272	D1698.98	.....	2532	D1800	.....	2740	D1900.2	.....	2996
D1640	.....	2276	D1699	.....	2488	D1806	.....	2820	D1901	.....	3000
D1641	.....	2280	D1699.2	.....	2492	D1808	.....	2812	D1901.6	.....	3020
D1642	.....	2284	D1699.4	.....	2500	D1810	.....	2824	D1902	.....	3024
D1646	.....	2288	D1699.5	.....	2533	D1812	.....	2828	D1902.6	.....	3029
D1647	.....	2292	D1699.6	.....	2533.5	D1814	.....	2808	D1904	.....	3012
D1649	.....	2296	D1699.7	.....	2534	D1815	.....	2807	D1904.6	.....	3014
D1649.1	.....	2300	D1700	.....	2540	D1816	.....	2748	D1907	.....	2938
D1650	.....	2304	D1702	.....	2544	D1818	.....	2756	D1911	.....	3040
D1652	.....	2308	D1702.6	.....	2538	D1820	.....	2764	D1911.1	.....	3044
D1653	.....	2312	D1702.9	.....	2535	D1822	.....	2760	D1912	.....	3032
D1657	.....	2316	D1704	.....	2548	D1824	.....	2752	D1914	.....	3048
D1657.5	.....	2320	D1706	.....	2552	D1826	.....	2768	D1916	.....	3052
D1657.6	.....	2324	D1708	.....	2556	D1827	.....	2772	D1919	.....	3056
D1658	.....	2328	D1710	.....	2560	D1828	.....	2776	D1921	.....	3068
D1659	.....	2332	D1710.1	.....	2564	D1830	.....	2780	D1924	.....	3072
D1659.2	.....	2336	D1714	.....	2568	D1830.4	.....	2781	D2002	.....	3076
D1660	.....	2340	D1716	.....	2572	D1831	.....	2784	D2003	.....	3080
D1661	.....	2341	D1716.2	.....	2575	D1834	.....	2804	D2003.1	.....	3084
D1662	.....	2348	D1716.4	.....	2573	D1838	.....	2796	D2005	.....	3088
D1662.1	.....	2352	D1716.6	.....	2574	D1842	.....	2788	D2005.1	.....	3092
D1664	.....	2356	D1717	.....	2576	D1846	.....	2832	D2008	.....	3096

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
D2012		3100	D2114		3389	D2160		3572	D2348.5		3864
D2012.1		3104	D2118		3388	D2160.16		3583	D2348.51		3868
D2012.8		3099	D2119		3390	D2160.36		3582	D2349		3872
D2015		3120	D2119.1		3390.5	D2160.4		3584	D2349.1		3876
D2015.1		3124	D2121		3392	D2160.5		3587	D2350.4		3882
D2016		3128	D2122		3396	D2160.6		3588	D2351		3880
D2016.2		3132	D2124		3400	D2161		3592	D2352		3884
D2016.21		3136	D2126		3404	D2161.1		3596	D2355		3900
D2018		3148	D2127		3408	D2162		3600	D2355.2		3908
D2018.1		3152	D2127.1		3412	D2164		3604	D2355.4		3912
D2020.4		3160	D2127.15		3414	D2165		3608	D2355.5		3914
D2020.6		3164	D2127.18		3439	D2165.1		3612	D2357		3928
D2022		3176	D2127.181		3439.2	D2168		3616	D2358		3932
D2022.1		3180	D2127.182		3439.4	D2170		3620	D2359		3920
D2023		3196	D2127.183		3439.6	D2171		3622	D2359.1		3924
D2023.1		3200	D2127.2		3438	D2172.3		3623	D2362		3940
D2023.7		3204	D2127.25		3438.5	D2174		3624	D2367		3960
D2024		3188	D2127.3		3413	D2175		3628	D2368		3968
D2024.1		3192	D2127.31		3413.3	D2176		3632	D2371.3		3977
D2027		3208	D2127.4		3416	D2177.1		3640	D2372		3984
D2027.1		3212	D2127.6		3420	D2178		3644	D2373		3980
D2028.4		3216	D2128		3432	D2179		3648	D2373.4		3988
D2028.5		3220	D2128.5		3436	D2179.2		3652	D2374		3992
D2029		3224	D2129		3424	D2181		3656	D2375		3996
D2029.1		3228	D2129.2		3428	D2181.1		3660	D2375.3		3998
D2031		3232	D2130		3440	D2192		3684	D2375.35		3999
D2032		3236	D2130.2		3444	D2194		3688	D2375.4		3972
D2034		3240	D2130.4		3448	D2196		3692	D2377		4012
D2036		3244	D2130.6		3452	D2196.2		3696	D2377.1		4016
D2037		3249	D2132		3453	D2197		3700	D2377.4		4020
D2038		3248	D2132.2		3453.5	D2197.2		3716	D2378		4024
D2046		3252	D2132.4		3454	D2197.3		3708	D2379		4008
D2048		3256	D2132.6		3454.5	D2197.4		3712	D2381		4032
D2048.1		3260	D2133.4		3462	D2206		3724	D2381.2		4036
D2052		3264	D2134.2		3464	D2206.1		3736	D2382		4037
D2052.1		3268	D2134.21		3468	D2208		3728	D2382.3		4038
D2056		3272	D2134.3		3480	D2209		3732	D2383		4048
D2056.2		3281	D2134.35		3481	D2211		3748	D2383.4		4050
D2056.21		3282	D2135.8		3488	D2212		3752	D2384		4040
D2057		3276	D2136		3492	D2218		3760	D2384.1		4044
D2058		3280	D2136.1		3496	D2219		3761	D2385		4052
D2060		3284	D2136.25		3504	D2221		3740	D2385.2		4049
D2062		3288	D2136.5		3505	D2221.1		3744	D2385.6		4056
D2066		3296	D2139		3508	D2222		3756	D2388		4060
D2068		3300	D2140		3512	D2225.3		3764	D2398		4064
D2069		3304	D2142		3520	D2230.1		3772	D2398.1		4068
D2069.1		3308	D2142.1		3524	D2232.8		3778	D2404		4072
D2072		3312	D2144		3516	D2234		3780	D2404.1		4076
D2074		3316	D2144.2		3518	D2234.1		3784	D2405		4077
D2076		3320	D2145		3526	D2235		3796	D2405.4		4078
D2078		3324	D2145.1		3526.1	D2235.2		3797	D2406		4080
D2078.1		3328	D2145.2		3526.2	D2238		3788	D2408		4084
D2084		3332	D2146		3527	D2238.1		3792	D2409		4088
D2086		3336	D2146.1		3527.1	D2246		3816	D2409.2		4096
D2088		3340	D2146.2		3527.2	D2249		3800	D2409.21		4100
D2092		3344	D2150		3556	D2250		3804	D2410		4092
D2092.1		3348	D2150.22		3532	D2305		3820	D2411		4104
D2094		3356	D2150.26		3540	D2312		3828	D2411.1		4108
D2096		3352	D2150.28		3544	D2315		3862	D2411.5		4110
D2098		3360	D2150.4		3560	D2319		3836	D2412		4112
D2100		3364	D2151		3564	D2320		3844	D2414		4116
D2102		3368	D2151.1		3568	D2321		3861	D2415		4118
D2106		3372	D2152		3548	D2324		3848	D2416		4124
D2108		3376	D2152.1		3552	D2324.1		3852	D2418		4120
D2110		3380	D2158		3570	D2345		3863	D2418.3		4122

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
D2420		4128	D2526		22928	D2596.2		23200	D2659		23640
D2423		4131	D2526.1		22932	D2596.6		23201	D2659.4		23644
D2424.6		4132	D2528		22934	D2598		23204	D2660		23512
D2425		4136	D2532		22912	D2599		23188	D2661		23516
D2425.3		4142	D2537		22938	D2599.1		23192	D2662		23524
D2425.4		4143	D2540		22940	D2600		23208	D2662.5		23525
D2425.66		4145	D2540.1		22944	D2600.2		23212	D2663.5		23528
D2425.67		4147	D2541		22992	D2602		23216	D2664		23532
D2425.7		4149	D2542		22948	D2602.1		23220	D2665		23536
D2425.74		4151	D2543		22952	D2602.2		23224	D2666		23540
D2426.3		4153	D2543.2		22956	D2602.4		23228	D2666.2		23544
D2430		4166	D2544		22960	D2604		23232	D2666.21		23548
D2430.2		4167	D2544.1		22964	D2608		23236	D2666.5		23556
D2431		4167.2	D2544.5		22968	D2611		23244	D2666.6		23552
D2431.2		4167.3	D2544.6		22972	D2612		23248	D2666.7		23560
D2432		4168	D2545		22976	D2613		23253	D2667		23564
D2434		4176	D2545.1		22980	D2613.2		23254	D2668		23504
D2434.2		4184	D2545.3		22984	D2614		23255	D2669		23508
D2434.4		4180	D2545.4		22988	D2616		23256	D2670		23484
D2435		4188	D2546		22996	D2616.2		23257	D2674		23488
D2435.1		4192	D2546.1		23000	D2616.4		23258	D2676		23500
D2436		4196	D2546.3		23008	D2616.6		23260	D2677		23496
D2436.1		4200	D2546.4		23012	D2617		23264	D2680		23480
D2436.6		4204	D2546.6		23004	D2619		23270	D2680.2		23472
D2436.7		4208	D2547		23016	D2621		24264	D2681		23476
D2436.75		4214.5	D2547.1		23020	D2622		24268	D2681.2		23477
D2436.78		4214.7	D2547.4		23024	D2623		24276	D2681.5		23468
D2436.8		4216	D2547.5		23028	D2623.2		24280	D2681.8		23466
D2437		4212	D2548.4		23032	D2626		24288	D2682		23452
D2437.2		4214	D2554		23036	D2628		24292	D2682.2		23456
D2438		4220	D2557		23048	D2628.2		24296	D2682.4		23460
D2442		4224	D2558		23052	D2630		24300	D2682.5		23464
D2445		4228	D2558.4		23054	D2631		24304	D2683		23448
D2446		4232	D2559		23056	D2632		23664	D2683.5		23482
D2448		4236	D2559.1		23060	D2632.2		23702	D2684		23372
D2449.2		4240	D2560		23064	D2632.3		23696	D2684.1		23376
D2450.7		4244	D2561		23076	D2632.4		23700	D2687.2		23360
D2451		4246	D2561.1		23080	D2633		23692	D2687.5		23364
D2451.2		4248	D2562		23072	D2633.7		23684	D2687.51		23368
D2451.5		4242	D2563		23068	D2633.71		23688	D2688		23408
D2456		4256	D2566		23096	D2634		23680	D2688.2		23410
D2482		22840	D2567		23100	D2635.3		23670	D2689		23428
D2484		22848	D2568		23124	D2636		23668	D2689.4		23432
D2486		22844	D2568.1		23128	D2638		23704	D2689.41		23436
D2487		22852	D2569		23108	D2640		23636	D2690		23404
D2488		22856	D2569.2		23114	D2640.5		23634	D2690.02		23420
D2490		22860	D2570		23104	D2642		23628	D2690.03		23424
D2490.5		22858	D2570.2		23112	D2643		23620	D2690.1		23440
D2492		22862	D2572		23116	D2643.1		23624	D2690.11		23444
D2493		22864	D2572.2		23120	D2643.4		23616	D2690.15		23400
D2496		22868	D2574		23132	D2645		23612	D2690.6		23392
D2498		22872	D2576		23136	D2646		23608	D2690.7		23396
D2500		22880	D2582		23140	D2647		23584	D2691		23380
D2502		22888	D2584		23148	D2648		23594	D2691.4		23377
D2503		22892	D2586		23152	D2649		23588	D2691.41		23377.1
D2504		22884	D2587		23156	D2649.1		23592	D2692		23344
D2506		22885	D2588		23144	D2650		23596	D2694		23320
D2507		22886	D2590		23160	D2650.1		23600	D2696		23324
D2510		22896	D2591		23164	D2654		23580	D2697		23328
D2512		22900	D2591.2		23168	D2654.2		23604	D2697.1		23332
D2514		22904	D2591.4		23172	D2655		23568	D2698		23336
D2514.1		22908	D2592		23176	D2655.4		23572	D2698.1		23340
D2522		22916	D2595		23180	D2655.6		23576	D2699		23348
D2524		22920	D2595.4		23184	D2656		23648	D2702		23304
D2524.1		22924	D2596		23196	D2657		23652	D2702.4		23308

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
D2702.41		23312	D2801.1		23972	D2832		23840	D2950		24080
D2703		23296	D2802		23944	D2833		23842	D2952		24088
D2703.1		23300	D2802.36		23989	D2834		23844	D2954		24092
D2704		23288	D2802.37		23988	D2835		23848	D2956		24084
D2705		23289	D2803.2		23945	D2836		23808	D2972		24308
D2706		23292	D2803.3		23953	D2837		23810	D2973		24316
D2708		23316	D2803.35		23954	D2838		23804	D2974.2		24312
D2712		23280	D2804		23976	D2842		23812	D2975		24320
D2714		23284	D2806		23980	D2844		23820	D2975.2		24324
D2720		23748	D2807		23984	D2844.1		23824	D2975.3		24328
D2722		23752	D2807.35		23989.5	D2844.67		23824.5	D2975.6		24332
D2726		23740	D2807.5		23990	D2844.75		23816	D2976		24336
D2728		23732	D2808		23992	D2845		23825	D2977		24340
D2730		23736	D2809		23996	D2845.5		23826	D2977.5		24344
D2738		23728	D2809.4		24000	D2846		23780	D2978		24348
D2743		23726	D2812		24008	D2848		23784	D2978.4		24352
D2744		23724	D2814		24012	D2848.4		23794	D2978.5		24356
D2746		23720	D2815		24014	D2848.5		23796	D2979		24360
D2750		23716	D2815.2		24014.2	D2849		23797	D2980		24364
D2752		23712	D2815.22		24014.4	D2849.51		23798	D2982		24368
D2754		23708	D2815.4		24016	D2850		23800	D2984		24372
D2755		23744	D2815.45		24020	D2851		23801	D2986		24373
D2756		23756	D2815.6		24022.2	D2852		23802	D2986.5		24374
D2757		23766	D2815.7		24022	D2872		24200	D2996		24380
D2757.2		23765	D2815.8		24022.6	D2874		24202	D2998		24384
D2759		23760	D2815.82		24022.4	D2876		24204	D3002		24388
D2759.1		23764	D2815.94		24023.7	D2881		24208	D3004		24392
D2762		23768	D2815.96		24023	D2882		24220	D3008		24396
D2763		23767	D2815.98		24023.5	D2884		24232	D3008.2		24400
D2768		23776	D2816		23928	D2888		24224	D3010		24404
D2769		23772	D2818		23854	D2890		24228	D3012		24408
D2772		24076	D2820		23852	D2898		24256	D3013		24412
D2775		24056	D2821		23856	D2900		24252	D3018		24440
D2777		24053	D2822		23868	D2901		24244	D3019		24444
D2778		24053.2	D2822.2		23869	D2904		24260	D3021		24452
D2778.2		24053.4	D2822.3		23870	D2908		24236	D3027		24464
D2778.4		24053.6	D2822.4		23872	D2910		24240	D3027.5		24465
D2778.6		24053.8	D2822.45		23873	D2914		24196	D3030		24468
D2780		24052	D2822.46		23874	D2916		24197	D3038		24476
D2781		24050	D2822.8		23859	D2918		24192	D3042		24484
D2782		24048	D2823		23864	D2919		24193	D3044		24492
D2786		24044	D2823.4		23860	D2919.5		24198	D3050		24500
D2790		24024	D2824		23866	D2920		24156	D3052		24504
D2791		24026	D2826		23876	D2920.1		24160	D3053		24506
D2792		24040	D2826.2		23880	D2921		24148	D3054		24508
D2793		24042	D2826.4		23884	D2921.1		24152	D3056		24512
D2793.5		24034	D2826.6		23912	D2922		24164	D3057		24520
D2794		24036	D2826.7		23916	D2922.5		24168	D3058		24524
D2794.2		24037	D2826.74		23913	D2923		24176	D3060		24540
D2795		24032	D2826.78		23909	D2923.1		24180	D3060.1		24544
D2796		24033.5	D2826.82		23917	D2923.2		24184	D3062		24532
D2796.1		24033	D2826.86		23908	D2923.3		24188	D3064		24552
D2796.5		24027	D2826.9		23910	D2925		24172	D3065		24556
D2798		23932	D2826.91		23910.5	D2930		24144	D3070		24564
D2799		23936	D2827		23904	D2934		24132	D3071		24565
D2799.6		23940	D2827.2		23900	D2936		24136	D3072		24568
D2799.65		23939	D2827.9		23918	D2942		24100	D3074		24576
D2799.66		23942	D2827.94		23920	D2943		24104	D3078		24580
D2799.67		23942.1	D2827.98		23924	D2943.4		24116	D3080		24596
D2799.68		23938	D2828		23828	D2943.41		24120	D3081		24588
D2799.7		23960	D2830		23832	D2943.6		24124	D3084		24600
D2800		23956	D2831		23836	D2943.61		24128	D3086		24604
D2800.2		23964	D2831.5		23892	D2944		24108	D3086.1		24608
D2800.4		23948	D2831.6		23888	D2944.4		24112	D3087		24612
D2801		23968	D2831.8		23838	D2946		24096	D3088		24616

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
D3090	.....	24620	D3167.2	.....	24904	D4175	.....	25252	D5060	.....	25568
D3093	.....	24636	D3167.4	.....	24908	D4175.5	.....	25260	D5080	.....	25572
D3094	.....	24640	D3167.52	.....	24916	D4176	.....	25264	D5100	.....	25576
D3096	.....	24648	D3167.6	.....	24920	D4177	.....	25272	D5101	.....	25584
D3097	.....	24652	D3168	.....	24924	D4180	.....	25268	D5104	.....	25596
D3098	.....	24656	D3171	.....	24928	D4190	.....	25276	D5150	.....	25600
D3098.5	.....	24664	D3173	.....	24944	D4200	.....	25300	D5180	.....	25604
D3099	.....	24668	D3174	.....	24932	D4210	.....	25288	D5200	.....	25608
D3100.2	.....	24672	D3174.2	.....	24936	D4230	.....	25184	D5224	.....	25624
D3101	.....	24676	D3176	.....	24948	D4234	.....	25196	D5226	.....	25612
D3101.1	.....	24680	D3178	.....	24952	D4234.1	.....	25200	D5228	.....	25616
D3101.4	.....	24684	D3179	.....	24956	D4237	.....	25192	D5228.2	.....	25620
D3101.6	.....	24688	D3180	.....	24960	D4238	.....	25201	D5240	.....	25628
D3102	.....	24692	D3181	.....	24964	D4239	.....	25202	D5250	.....	25632
D3105	.....	24696	D3870	.....	24968	D4241	.....	25204	D5270	.....	25636
D3106	.....	24704	D3871	.....	25028	D4242	.....	25205	D5280	.....	25640
D3107	.....	24700	D3871.5	.....	24970	D4243	.....	25183	D5288	.....	25644
D3108	.....	24708	D3871.51	.....	24972	D4248	.....	25208	D5300	.....	25652
D3108.1	.....	24712	D3873	.....	24976	D4249	.....	25210	D5300.1	.....	25656
D3110.5	.....	24716	D3876	.....	24984	D4260	.....	25304	D5304	.....	25660
D3111	.....	24720	D3877	.....	24982	D4266	.....	25308	D5304.2	.....	25662
D3112	.....	24724	D3877.2	.....	24981	D4272	.....	25312	D5312	.....	25648
D3112.4	.....	24740	D3878	.....	24992	D4276	.....	25316	D5324	.....	25664
D3112.6	.....	24744	D3881	.....	24996	D4284	.....	25348	D5328	.....	25668
D3112.9	.....	24728	D3884	.....	25004	D4284.2	.....	25344	D5336	.....	25672
D3113	.....	24730	D3885	.....	25008	D4286	.....	25356	D5346	.....	25676
D3113.1	.....	24732	D3885.5	.....	25012	D4287.5	.....	25364	D5356	.....	25680
D3113.3	.....	24734	D3886	.....	25016	D4290	.....	25372	D5370	.....	25684
D3113.31	.....	24736	D3888	.....	25032	D4294	.....	25384	D5400	.....	25688
D3113.8	.....	24748	D3900	.....	25036	D4311	.....	25452	D5404	.....	25692
D3114	.....	24752	D3904	.....	25044	D4314	.....	25476	D5404.1	.....	25696
D3115	.....	24758	D3906	.....	25048	D4315	.....	25460	D5414	.....	25708
D3115.5	.....	24756	D3930	.....	25056	D4315.1	.....	25464	D5418	.....	25700
D3116	.....	24760	D3940	.....	25064	D4319	.....	25484	D5420	.....	25704
D3118	.....	24764	D3944	.....	25068	D4326	.....	25492	D5430	.....	25712
D3120	.....	24768	D3990	.....	25084	D4332	.....	25496	D5436	.....	25716
D3120.2	.....	24784	D4000	.....	25100	D4332.1	.....	25500	D5442	.....	25720
D3120.4	.....	24776	D4006	.....	25096	D4340	.....	25504	D5460	.....	25724
D3120.41	.....	24780	D4008	.....	25088	D4342.5	.....	25506	D5464	.....	25728
D3122	.....	24788	D4008.1	.....	25092	D4343	.....	25508	D5510	.....	25752
D3123	.....	24792	D4018	.....	25104	D4343.1	.....	25512	D5520	.....	25756
D3125	.....	24796	D4028	.....	25136	D4370	.....	25516	D5522	.....	25768
D3127	.....	24840	D4032	.....	25120	D4380	.....	25528	D5522.1	.....	25772
D3128	.....	24804	D4036	.....	25124	D4382	.....	25532	D5524	.....	25776
D3129	.....	24812	D4036.1	.....	25128	D4384	.....	25536	D5524.1	.....	25780
D3130	.....	24816	D4039	.....	25116	D4384.1	.....	25540	D5528	.....	25784
D3130.1	.....	24820	D4040	.....	25112	D4390	.....	25524	D5531	.....	25785
D3131	.....	24824	D4043	.....	25140	D4400	.....	25548	D5600	.....	25788
D3131.1	.....	24828	D4046	.....	25144	D4600	.....	25549	D5606	.....	25808
D3134	.....	24832	D4051	.....	25146	D4600.1	.....	25549.1	D5607	.....	25792
D3135	.....	24836	D4056	.....	25156	D4616	.....	25550	D5607.1	.....	25796
D3137.5	.....	24843	D4060	.....	25164	D4616.1	.....	25550.5	D5608	.....	25812
D3138	.....	24844	D4064	.....	25160	D4630	.....	25551	D5640	.....	25816
D3140	.....	24848	D4134	.....	25236	D4800	.....	26072	D5640.1	.....	25820
D3145	.....	24852	D4134.1	.....	25240	D4800.1	.....	26076	D5660	.....	25824
D3146	.....	24856	D4149	.....	25175	D4804	.....	26080	D5660.1	.....	25828
D3148	.....	24860	D4154	.....	25172	D4804.1	.....	26084	D5704	.....	25832
D3151	.....	24864	D4154.2	.....	25177	D4812	.....	26092	D5705	.....	25836
D3155	.....	24872	D4155	.....	25176	D4904	.....	26100	D5720	.....	25838
D3155.1	.....	24868	D4158	.....	25180	D4904.1	.....	26104	D5734	.....	25840
D3155.4	.....	24876	D4158.5	.....	25174	D4906	.....	26108	D5770	.....	25844
D3156	.....	24880	D4159	.....	25174.5	D4908	.....	26112	D5772	.....	25852
D3162	.....	24884	D4160	.....	25182	D5003	.....	25556	D5773	.....	25848
D3166	.....	24892	D4170	.....	25248	D5006	.....	25560	D5774	.....	25860
D3167	.....	24896	D4174	.....	25256	D5040	.....	25564	D5790	.....	25864

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
D5791	.....	25868	D8605.3	.....	25424	E0090	.....	4440	E0138	.....	4616
D5792	.....	25872	D8605.4	.....	25440	E0091	.....	4432	E0140	.....	4624
D5792.2	.....	25874	D8610	.....	25444	E0091.6	.....	4437	E0141	.....	4632
D5794	.....	25876	D8625	.....	25502	E0092	.....	4444	E0141.5	.....	4636
D5798	.....	25880	D8633	.....	25552	E0092.4	.....	4448	E0146	.....	4640
D5801	.....	25884	E0012	.....	4266	E0093	.....	4452	E0146.2	.....	4644
D5803	.....	25888	E0018	.....	4268	E0094	.....	4460	E0146.4	.....	4645
D5810	.....	25892	E0018.3	.....	4272	E0095	.....	4456	E0146.6	.....	4646
D5830	.....	25896	E0018.4	.....	4276	E0095.5	.....	4462	E0147	.....	4648
D5831	.....	25948	E0020	.....	4280	E0096	.....	4464	E0147.5	.....	4650
D5832	.....	25940	E0022	.....	4282	E0098	.....	4472	E0148	.....	4652
D5832.1	.....	25944	E0022.2	.....	4284	E0099	.....	4468	E0149	.....	4656
D5833	.....	25936	E0024	.....	4288	E0100.2	.....	4470	E0152	.....	4664
D5834	.....	25900	E0031	.....	4292	E0100.4	.....	4469	E0154	.....	4668
D5836	.....	25902	E0032	.....	4296	E0101	.....	4474	E0155	.....	4672
D5838	.....	25904	E0032.2	.....	4300	E0101.4	.....	4473	E0157	.....	4676
D5840	.....	25908	E0056	.....	4304	E0101.6	.....	4473.5	E0158	.....	4680
D5841.1	.....	25932	E0057.6	.....	4312	E0102	.....	4476	E0158.4	.....	4682
D5843	.....	25925	E0057.8	.....	4316	E0103	.....	4484	E0158.6	.....	4682.5
D5847	.....	25916	E0058	.....	4320	E0106	.....	4492	E0159	.....	4692
D5847.1	.....	25920	E0058.5	.....	4339	E0107	.....	4494	E0159.3	.....	4696
D5848	.....	25945	E0059	.....	4340	E0107.2	.....	4494.4	E0160	.....	4700
D5849	.....	25945.5	E0059.4	.....	4330	E0107.3	.....	4494.2	E0161	.....	4684
D5860	.....	25956	E0060.3	.....	4334	E0107.7	.....	4495	E0162	.....	4688
D5867	.....	25960	E0060.4	.....	4328	E0108	.....	4496	E0166	.....	4704
D5867.1	.....	25964	E0060.5	.....	4324	E0109	.....	4500	E0168	.....	4708
D5870	.....	25968	E0060.6	.....	4332	E0109.2	.....	4504	E0169	.....	4712
D5880	.....	25972	E0060.7	.....	4336	E0109.3	.....	4508	E0172	.....	4716
D5880.5	.....	25973	E0060.8	.....	4346	E0109.4	.....	4506	E0172.5	.....	4720
D5900	.....	25980	E0061	.....	4348	E0109.5	.....	4509	E0173.6	.....	4724
D5903	.....	25984	E0062	.....	4360	E0109.6	.....	4510	E0174	.....	4728
D5905	.....	25986	E0064	.....	4364	E0109.7	.....	4511	E0174.2	.....	4732
D5910	.....	25976	E0064.5	.....	4366	E0110	.....	4512	E0174.4	.....	4732.5
D5929	.....	26049	E0065	.....	4366.5	E0111	.....	4516	E0174.6	.....	4732.75
D5929.1	.....	26049.1	E0065.3	.....	4367	E0112	.....	4520	E0174.9	.....	4734
D5930	.....	25988	E0065.5	.....	4367.1	E0113	.....	4522	E0174.92	.....	4733
D5934	.....	25992	E0065.7	.....	4367.2	E0114	.....	4524	E0174.93	.....	4735
D5934.2	.....	25996	E0066	.....	4368	E0116	.....	4528	E0175.2	.....	4740
D5935	.....	26000	E0067	.....	4376	E0117.5	.....	4532	E0175.4	.....	4736
D5935.1	.....	26004	E0067.5	.....	4372	E0120	.....	4536	E0176	.....	5300
D5936	.....	26008	E0068	.....	4380	E0120.5	.....	4540	E0179	.....	5304
D5936.1	.....	26012	E0069	.....	4370	E0120.7	.....	4541	E0179.4	.....	5308
D5937	.....	26016	E0069.2	.....	4371	E0124	.....	4548	E0180	.....	5312
D5938	.....	26020	E0069.4	.....	4371.5	E0125	.....	4552	E0184	.....	5324
D5938.4	.....	26024	E0070	.....	4384	E0125.3	.....	4556	E0185	.....	5332
D5939	.....	26028	E0070.2	.....	4384.5	E0125.6	.....	4560	E0186	.....	5316
D5940	.....	26032	E0071	.....	4388	E0126	.....	4564	E0186.1	.....	5320
D5942	.....	26036	E0071.2	.....	4389	E0126.2	.....	4568	E0187	.....	5328
D5943	.....	26040	E0072	.....	4392	E0126.4	.....	4569	E0187.5	.....	5329
D5953	.....	26044	E0073.2	.....	4396	E0126.5	.....	4576.5	E0188	.....	5333
D5954	.....	26048	E0073.6	.....	4404	E0126.64	.....	4577.2	E0188.5	.....	5334
D5958	.....	26050	E0073.7	.....	4402	E0126.65	.....	4576.75	E0190	.....	5338
D5960	.....	26051	E0074	.....	4408	E0126.7	.....	4577	E0190.2	.....	5338.5
D6000	.....	26056	E0074.8	.....	4411	E0126.75	.....	4577.5	E0194	.....	5340
D6002	.....	26060	E0075	.....	4409	E0127	.....	4580	E0196	.....	5348
D6110	.....	26064	E0075.2	.....	4410	E0128	.....	4588	E0197	.....	5352
D8542.2	.....	24842	E0077	.....	4411.5	E0130	.....	4592	E0197.2	.....	5356
D8580.6	.....	25038	E0079	.....	4416	E0130.5	.....	4593	E0198	.....	5360
D8581.7	.....	25049	E0079.2	.....	4412	E0132	.....	4595	E0200	.....	5368
D8584.4	.....	25058	E0080	.....	4420	E0132.2	.....	4595.5	E0200.4	.....	5372
D8588.2	.....	25070	E0082	.....	4422	E0132.4	.....	4595.75	E0200.8	.....	5382
D8588.6	.....	25226	E0086	.....	22780	E0134	.....	4596	E0201.1	.....	5421.5
D8589.6	.....	25228	E0088	.....	4424	E0136	.....	4600	E0201.11	.....	5421.6
D8605	.....	25388	E0088.4	.....	4428	E0137	.....	4604	E0201.15	.....	5374
D8605.2	.....	25420	E0089.5	.....	4430	E0137.4	.....	4608	E0201.2	.....	5380

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
E0201.4		5384	E0266		4824	E0316		4892	E0351		5228
E0201.5		5376	E0266.2		4828	E0316.3		4895	E0351.1		5232
E0202		5388	E0267		4840	E0316.4		4896	E0352		5236
E0203.4		5400	E0267.2		4842	E0316.5		4896.5	E0354		5240
E0204		5404	E0267.8		4799	E0316.6		4895.5	E0355		5238
E0204.2		5408	E0268		4800	E0316.7		4900	E0356		5252
E0205		5412	E0270		4804	E0316.72		4901	E0358		5256
E0206		5420	E0273		4796	E0316.8		4912	E0359		5260
E0206.5		5421	E0274		4784	E0316.82		4916	E0360		5264
E0207		5416	E0276		4788	E0316.83		4920	E0361		5268
E0207.5		5417	E0278		4848	E0316.84		4924	E0361.4		5272
E0208.6		5422	E0282		5032	E0317		4904	E0361.6		5276
E0208.65		5423	E0284		5036	E0317.2		4908	E0362		5284
E0209.6		5424	E0288		5044	E0318		4936	E0362.4		5280
E0209.7		5424.5	E0289		5040	E0318.3		4940	E0364		5288
E0210		5425	E0290		5048	E0318.6		4944	E0364.2		5292
E0212.3		5428	E0290.1		5052	E0318.7		4942	E0364.4		5296
E0212.6		5448	E0291		5056	E0318.71		4941	E0366		5180
E0214		5432	E0293		5060	E0318.8		4932	E0367		5182
E0214.2		5431	E0293.2		5064	E0319		4934	E0370		5568
E0214.6		5440	E0296		5068	E0320		4992	E0370.3		5556
E0214.7		5442	E0298		5072	E0322		4976	E0370.35		5560
E0216		5452	E0299		5076	E0322.2		4980	E0370.6		5564
E0217		5449	E0300		5084	E0326		4951.5	E0371.2		5572
E0217.2		5449.5	E0301		5080	E0326.2		4951	E0373		5576
E0217.4		5450	E0302		5088	E0328		4950	E0374		5580
E0217.5		5450.5	E0303		5090	E0328.08		4946	E0374.2		5584
E0218		5454	E0303.2		5091	E0328.3		4948	E0374.4		5588
E0219		5456	E0303.7		5086	E0328.31		4949	E0375		5592
E0220		5460	E0304		5100	E0328.32		4996	E0376		5599
E0221		5464	E0306		5096	E0328.34		4968	E0377		5598
E0222		5504	E0306.5		5097	E0328.36		4972	E0380		5600
E0222.2		5508	E0306.6		5099	E0328.38		4960	E0380.5		5608
E0222.4		5512	E0307		5098	E0328.39		4964	E0380.6		5604
E0224		5476	E0307.1		5104	E0328.42		4952	E0381.5		5612
E0226		5480	E0307.16		5105	E0328.7		5000	E0382		5613
E0226.2		5488	E0307.17		5107	E0328.75		5004	E0382.2		5613.5
E0226.4		5492	E0307.19		5107.5	E0329		5006	E0382.3		5614
E0229.2		5496	E0307.2		5108	E0330		5008	E0382.4		5614.5
E0230		5516	E0307.4		5112	E0332		5012	E0382.5		5615
E0231.6		5518	E0308		5116	E0332.5		5012.5	E0382.6		5615.5
E0232		5520	E0308.2		5120	E0333		5013	E0383		5620
E0234		5528	E0308.6		5132	E0333.2		5014	E0384		5616
E0234.4		5524	E0308.7		5128	E0334		5016	E0385		5624
E0238		5532	E0308.8		5124	E0336		5020	E0385.5		5628
E0239		5536	E0309		5136	E0336.6		5024	E0386		5632
E0239.4		5540	E0309.4		5140	E0336.8		5022	E0386.6		5640
E0244		5544	E0310		5144	E0337		5028	E0387		5644
E0246		5552	E0310.4		5148	E0338		4852	E0387.2		5648
E0248		5548	E0311		5152	E0338.3		4856	E0388		5652
E0249		4760	E0311.2		5154	E0338.6		4860	E0388.12		5682
E0249.1		4764	E0311.4		5156	E0339		4864	E0388.2		5662
E0250		4744	E0311.8		5160	E0340		4868	E0388.35		5684
E0251		4748	E0311.9		5162	E0342		5184	E0388.4		5660
E0252		4752	E0312.2		5164	E0344		5188	E0389		5670
E0253		4756	E0312.3		5168	E0345		5192	E0392		5676
E0253.5		4774	E0312.6		5172	E0345.4		5196	E0392.3		5689
E0254		4772	E0313		5176	E0345.6		5200	E0392.33		5690
E0256		4768	E0314		4872	E0345.8		5208	E0392.37		5690.5
E0258		4776	E0314.2		4885	E0345.9		5204	E0392.4		5691
E0260		4780	E0314.4		4876	E0346.2		5216	E0392.6		5668
E0262		4844	E0314.6		4880	E0346.4		5212	E0393		5664
E0264		4808	E0315		4884	E0348		5220	E0393.2		5665
E0264.4		4810	E0315.4		4887	E0350		5224	E0393.7		5691.5
E0265		4820	E0315.8		4888	E0350.5		5226	E0394		5692

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
E0394.2		5696	E0475.7		5968	E0547.5		6200	E0609.4		6496
E0394.4		5700	E0476		5972	E0547.7		6204	E0609.41		6500
E0394.6		5704	E0479		5976	E0548		6212	E0609.5		6484
E0396		5708	E0480		5980	E0550		6192	E0610		6504
E0396.12		5718	E0484		5984	E0551		6188	E0610.2		6508
E0396.14		5720	E0486		5988	E0552		6184	E0610.5		6512
E0396.2		5712	E0488		5992	E0555		6232	E0610.6		6516
E0396.3		5716	E0489		5996	E0556		6224	E0611		6520
E0396.5		5732	E0490		6000	E0557		6228	E0615		6524
E0396.52		5728	E0490.4		6004	E0557.2		6216	E0615.4		6526
E0396.6		5736	E0492		6008	E0558		6221	E0617		6528
E0396.62		5740	E0492.2		6009	E0558.2		6222	E0620		6540
E0396.64		5744	E0493		6012	E0560		6236	E0622		6544
E0396.8		5745	E0495		6016	E0561		6240	E0624		6548
E0396.85		5746	E0496		6020	E0562		6244	E0624.7		6549
E0396.9		5747	E0497		6048	E0566		6248	E0624.8		6550
E0397		5748	E0497.1		6052	E0576		6268	E0625.3		6552
E0398		5752	E0498		6024	E0577		6264	E0625.6		6556
E0399		5753	E0504		6044	E0577.4		6269	E0628		6560
E0400		5760	E0506		6032	E0577.5		6270	E0630		6564
E0401		5764	E0508		6036	E0578		6272	E0631		6568
E0402		5768	E0509		6040	E0578.2		6280	E0634		6572
E0405		5774	E0512		6056	E0579		6260	E0635		6580
E0407.4		5776	E0512.5		6060	E0580		6276	E0635.4		6584
E0407.6		5780	E0512.6		6064	E0582		6284	E0636		6592
E0407.62		5784	E0513		6068	E0582.2		6288	E0637		6588
E0434.4		5795	E0514		6080	E0583		6292	E0637.2		6600
E0434.45		5796	E0514.5		6072	E0583.2		6296	E0637.6		6596
E0434.8		5868	E0515		6076	E0583.4		6300	E0642		6604
E0437		5864	E0515.2		6077	E0584		6316	E0643		6608
E0439		5874	E0516		6078	E0584.2		6304	E0644		6616
E0439.2		5874.5	E0516.1		6078.5	E0584.4		6308	E0646		6612
E0439.5		5875	E0517		6084	E0586		6320	E0654		6620
E0439.8		5875.4	E0517.6		6092	E0590		6330	E0656		6624
E0440		5876	E0517.7		6096	E0590.2		6331	E0657		6632
E0446		5880	E0517.8		6097	E0592		6348	E0660		6628
E0446.5		5884	E0517.9		6098	E0594		6344	E0662		6636
E0448		5888	E0518		6088	E0600		6356	E0664		6640
E0452		5891	E0522		6100	E0600.2		6360	E0666		6644
E0452.08		5893	E0522.1		6100.1	E0601		6392	E0667		6648
E0452.1		5894	E0524		6104	E0602		6408	E0668		6652
E0452.2		5892	E0525		6106	E0602.1		6412	E0674		6656
E0453		5896	E0525.2		6106.5	E0602.2		6416	E0676		6660
E0456		5900	E0526		6107	E0602.3		6420	E0677		6668
E0459		5912	E0526.2		6120	E0602.32		6428	E0678		6664
E0460		5920	E0527.2		6113	E0602.33		6424	E0679		6672
E0462		5916	E0527.5		6114	E0602.34		6432	E0680		6688
E0464		5924	E0527.52		6115	E0602.36		6436	E0682		6676
E0466.4		5927	E0527.7		6122	E0602.6		6440	E0682.5		6678
E0466.6		5926	E0527.8		6122.5	E0603		6404	E0683		6684
E0466.7		5928	E0528		6112	E0603.5		6444	E0684		6680
E0466.75		5929	E0529		6108	E0603.51		6448	E0685		6692
E0466.8		5930	E0534		6128	E0604		6396	E0686		6700
E0467		5932	E0535		6124	E0604.1		6400	E0687		6696
E0468		5936	E0535.4		6132	E0604.5		6454	E0690		6704
E0470		5940	E0536		6140	E0605		6450	E0693		6716
E0472		5944	E0536.2		6144	E0605.2		6452	E0693.3		6712
E0474		5948	E0538		6136	E0606.2		6464	E0694		6708
E0474.4		5952	E0539		6152	E0606.8		6456	E0695		6720
E0475.4		5956	E0540		6148	E0606.9		6460	E0697		6724
E0475.5		5960	E0542		6154	E0607		6468	E0698		6736
E0475.52		5960.5	E0544		6164	E0607.2		6472	E0698.2		6732
E0475.53		5961	E0545		6162	E0608		6480	E0698.4		6740
E0475.54		5961.5	E0546		6180	E0609		6488	E0699		6742
E0475.6		5964	E0547		6196	E0609.1		6492	E0700		6744

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
E0701	.....	6748	E0772	.....	6988	E0836.2	.....	7228	E0922	.....	8056
E0702	.....	6752	E0774	.....	6992	E0838	.....	7232	E0923	.....	8060
E0702.4	.....	6756	E0778	.....	7000	E0838.4	.....	7256	E0924	.....	8064
E0704	.....	6764	E0779	.....	7004	E0838.42	.....	7260	E0926	.....	8068
E0706	.....	6768	E0782	.....	6996	E0838.44	.....	7264	E0928	.....	8072
E0708	.....	6772	E0784	.....	7008	E0839	.....	7244	E0930	.....	8076
E0709	.....	6776	E0784.2	.....	7012	E0839.2	.....	7248	E0932	.....	8084
E0709.4	.....	6780	E0784.6	.....	7014	E0840	.....	7240	E0933	.....	8092
E0709.6	.....	6784	E0786	.....	7016	E0842	.....	7236	E0933.2	.....	8096
E0709.65	.....	6776.5	E0786.2	.....	7018	E0848	.....	7268	E0934	.....	8088
E0709.7	.....	6777	E0788	.....	7024	E0849	.....	7272	E0935	.....	8080
E0709.75	.....	6778	E0788.4	.....	7028	E0850	.....	7276	E0936	.....	8200
E0709.8	.....	6786	E0790	.....	7020	E0852	.....	8100	E0937	.....	8204
E0710	.....	6760	E0791	.....	7032	E0854	.....	8104	E0937.1	.....	8204.1
E0712	.....	6792	E0791.4	.....	7036	E0855	.....	8108	E0938	.....	8208
E0713	.....	6788	E0791.7	.....	7038	E0856	.....	8112	E0940	.....	8196
E0714	.....	6796	E0792	.....	7040	E0858	.....	8120	E0942	.....	8188
E0716	.....	6820	E0792.4	.....	7039	E0860	.....	8124	E0946	.....	8192
E0717	.....	6832	E0792.5	.....	7039.5	E0861	.....	8116	E0950	.....	8836
E0717.8	.....	6822	E0792.6	.....	7039.6	E0862	.....	8110	E0951	.....	8848
E0719	.....	6828	E0793	.....	7052	E0862.6	.....	8110.5	E0952	.....	8824
E0719.5	.....	6824	E0793.4	.....	7048	E0863	.....	8132	E0957	.....	8768
E0720	.....	6836	E0794	.....	7056	E0864	.....	8136	E0957.1	.....	8772
E0721	.....	6837	E0795	.....	7060	E0865	.....	8137	E0958	.....	8828
E0726	.....	6852	E0795.5	.....	7064	E0865.2	.....	8138	E0960	.....	8760
E0727	.....	6856	E0796	.....	7068	E0866	.....	8148	E0960.1	.....	8761
E0729	.....	6844	E0796.8	.....	7070	E0866.4	.....	8152	E0961	.....	8784
E0730	.....	6848	E0797	.....	7072	E0867	.....	8156	E0962	.....	8780
E0732	.....	6849	E0797.8	.....	7074	E0869	.....	8160	E0962.4	.....	8776
E0734	.....	6860	E0798	.....	7076	E0870	.....	8168	E0963	.....	8788
E0739	.....	6864	E0798.4	.....	7080	E0870.3	.....	8164	E0964	.....	8792
E0739.1	.....	6868	E0798.6	.....	7082	E0870.6	.....	8172	E0966	.....	8756
E0740	.....	6872	E0799	.....	7084	E0870.8	.....	8176	E0968	.....	8764
E0740.2	.....	6876	E0799.4	.....	7088	E0871.5	.....	8180	E0972	.....	8796
E0741	.....	6884	E0800	.....	7096	E0872	.....	7948	E0974	.....	8804
E0741.2	.....	6835.5	E0801	.....	7092	E0874	.....	7952	E0976	.....	8808
E0741.4	.....	6880	E0803	.....	7100	E0874.5	.....	7950	E0980	.....	8816
E0741.6	.....	6835	E0804	.....	7104	E0875	.....	7960	E0980.1	.....	8820
E0741.7	.....	6835.1	E0804.5	.....	7107	E0876	.....	7944	E0984	.....	8840
E0741.8	.....	6834	E0805	.....	7108	E0878	.....	7964	E0988	.....	8832
E0742	.....	6840	E0806	.....	7112	E0882	.....	7976	E0990	.....	8833
E0744	.....	6888	E0808	.....	7116	E0886	.....	7968	E0990.2	.....	8834
E0746	.....	6892	E0810	.....	7120	E0888	.....	7980	E0990.4	.....	8835.5
E0748	.....	6896	E0810.4	.....	7122	E0889	.....	7986	E0990.6	.....	8835
E0749	.....	6900	E0811	.....	7124	E0890	.....	7984	E0991	.....	8752
E0750	.....	6904	E0812.2	.....	7128	E0894	.....	7988	E0992	.....	8748
E0751	.....	6908	E0814	.....	7132	E0896	.....	7992	E0993	.....	8753
E0752	.....	6912	E0818	.....	7136	E0898	.....	7996	E0994	.....	8740
E0753	.....	6916	E0818.6	.....	7160	E0899	.....	8000	E0995	.....	8742
E0754	.....	6920	E0818.7	.....	7164	E0899.2	.....	8001	E0995.4	.....	8737
E0754.2	.....	6924	E0819	.....	7140	E0900	.....	8004	E0995.42	.....	8738
E0754.6	.....	6928	E0819.5	.....	7152	E0902	.....	8036	E0996	.....	8744
E0754.7	.....	6932	E0819.6	.....	7144	E0905	.....	8034	E0998	.....	8736
E0754.8	.....	6936	E0821	.....	7168	E0906	.....	8032	E1000	.....	8732
E0755.6	.....	6940	E0822	.....	7184	E0908	.....	8008	E1002	.....	8724
E0756	.....	6944	E0823	.....	7188	E0910	.....	8012	E1003	.....	8728
E0757	.....	6948	E0824	.....	7192	E0911	.....	8016	E1004	.....	8720
E0759	.....	6952	E0824.2	.....	7200	E0912	.....	8021	E1005	.....	8696
E0764	.....	6956	E0825	.....	7196	E0913	.....	8020	E1005.4	.....	8692
E0765	.....	6964	E0825.2	.....	7204	E0914	.....	8024	E1006	.....	8700
E0765.3	.....	6972	E0828	.....	7216	E0915	.....	8028	E1006.1	.....	8704
E0765.4	.....	6960	E0830	.....	7208	E0916	.....	8040	E1007	.....	8708
E0766	.....	6968	E0832	.....	7212	E0918	.....	8044	E1007.3	.....	8712
E0770	.....	6976	E0833	.....	7220	E0919	.....	8048	E1008	.....	8716
E0771	.....	6984	E0836	.....	7224	E0920	.....	8052	E1008.4	.....	8684

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
E1008.5	.....	8686	E1066.2	.....	8492	E1130	.....	8212	E1199.2	.....	7512
E1008.7	.....	8688	E1066.24	.....	8476	E1132	.....	8268	E1201	.....	7516
E1009	.....	8672	E1066.26	.....	8480	E1133	.....	8266	E1201.3	.....	7520
E1009.2	.....	8676	E1066.28	.....	8484	E1133.5	.....	8265	E1202	.....	7528
E1009.4	.....	8680	E1066.7	.....	8464	E1134	.....	8264	E1202.2	.....	7533
E1009.5	.....	8671	E1066.71	.....	8468	E1134.4	.....	8264.5	E1202.4	.....	7532
E1009.56	.....	8669	E1067	.....	8456	E1135	.....	8262	E1202.6	.....	7524
E1009.6	.....	8669.5	E1070	.....	8452	E1136.32	.....	8244	E1206	.....	7568
E1009.62	.....	8670	E1071	.....	8449.1	E1136.4	.....	8249	E1208	.....	7544
E1009.65	.....	8665	E1071.2	.....	8449	E1136.41	.....	8249.1	E1208.2	.....	7556
E1009.7	.....	8668	E1072	.....	8448	E1136.5	.....	8250	E1208.6	.....	7560
E1009.8	.....	8666	E1073	.....	8445	E1136.51	.....	8250.1	E1208.8	.....	7564
E1010	.....	8664	E1073.1	.....	8446	E1136.55	.....	8252	E1212	.....	7540
E1012.2	.....	8648	E1074	.....	8436	E1136.6	.....	8248	E1215	.....	7608
E1012.4	.....	8649	E1080	.....	8440	E1136.8	.....	8236	E1216	.....	7596
E1013.5	.....	8656	E1084	.....	8444	E1138	.....	8216	E1217	.....	7592
E1013.6	.....	8660	E1086	.....	8428	E1139	.....	8224	E1218	.....	7576
E1013.8	.....	8612	E1090	.....	8432	E1140	.....	8220	E1219	.....	7580
E1014	.....	8616	E1092	.....	8416	E1141	.....	8232	E1220	.....	7584
E1019	.....	8624	E1093	.....	8388	E1147	.....	7280	E1221	.....	7585
E1020	.....	8632	E1093.1	.....	8392	E1147.4	.....	7284	E1225	.....	7600
E1025	.....	8640	E1093.5	.....	8418	E1147.6	.....	7288	E1226	.....	7604
E1028	.....	8600	E1093.6	.....	8419	E1149	.....	7292	E1230	.....	7612
E1028.4	.....	8604	E1094	.....	8412	E1149.05	.....	7294	E1233	.....	7620
E1028.6	.....	8608	E1094.1	.....	8414	E1149.2	.....	7296	E1236	.....	7624
E1029	.....	8592	E1094.4	.....	8408	E1150	.....	7300	E1237	.....	7632
E1029.2	.....	8596	E1094.6	.....	8404	E1150.4	.....	7304	E1238	.....	7628
E1030	.....	8588	E1095	.....	8400	E1150.6	.....	7308	E1244	.....	7636
E1031	.....	8580	E1096	.....	8396	E1152	.....	7316	E1246	.....	7640
E1031.2	.....	8584	E1096.5	.....	8419.5	E1156	.....	7320	E1248	.....	7644
E1032	.....	8564	E1096.6	.....	8419.75	E1157	.....	7328	E1254	.....	7648
E1033	.....	8569	E1098	.....	8420	E1157.2	.....	7324	E1255	.....	7660
E1034	.....	8568	E1098.4	.....	8424	E1158	.....	7332	E1255.5	.....	7652
E1036	.....	8572	E1099	.....	8364	E1160	.....	7336	E1256	.....	7657
E1037	.....	8576	E1099.2	.....	8363	E1162	.....	7340	E1256.2	.....	7656
E1042	.....	8560	E1100	.....	8370	E1164	.....	7344	E1257	.....	7664
E1042.1	.....	8544	E1100.04	.....	8371	E1166	.....	7348	E1257.2	.....	7668
E1043	.....	8548	E1100.5	.....	8374	E1166.2	.....	7352	E1257.4	.....	7672
E1044	.....	8556	E1100.8	.....	8376	E1168	.....	7356	E1257.7	.....	7676
E1048	.....	8552	E1101	.....	8380	E1169	.....	7360	E1257.8	.....	7680
E1049	.....	8550	E1103	.....	8360	E1170	.....	7364	E1257.9	.....	7684
E1053	.....	8536	E1103.2	.....	8362	E1171	.....	7368	E1258	.....	7692
E1053.2	.....	8540	E1103.24	.....	8358	E1171.4	.....	7380	E1262	.....	7696
E1054	.....	8532	E1104	.....	8356	E1171.5	.....	7384	E1263	.....	7708
E1056	.....	8501	E1104.2	.....	8353	E1171.6	.....	7388	E1265	.....	7700
E1056.2	.....	8500	E1105.2	.....	8344	E1171.7	.....	7392	E1265.4	.....	7704
E1057	.....	8502	E1106	.....	8324	E1171.8	.....	7395	E1268	.....	7720
E1057.4	.....	8503	E1107	.....	8328	E1172	.....	7396	E1269	.....	7724
E1058	.....	8524	E1107.2	.....	8332	E1175	.....	7420	E1270	.....	7812
E1059	.....	8520	E1107.6	.....	8336	E1175.1	.....	7408	E1270.2	.....	7816
E1059.2	.....	8516	E1108	.....	8320	E1180	.....	7440	E1274	.....	7820
E1062	.....	8504	E1111	.....	8316	E1181.9	.....	7472	E1278	.....	7808
E1063	.....	8512	E1112	.....	8312	E1182	.....	7476	E1280	.....	7804
E1064	.....	8508	E1116.4	.....	8308	E1182.3	.....	7416	E1280.2	.....	7800
E1065	.....	8528	E1116.5	.....	8309	E1185	.....	7448	E1281	.....	7796
E1065.61	.....	8503.25	E1117	.....	8286	E1185.2	.....	7452	E1281.2	.....	7792
E1065.615	.....	8503.45	E1117.2	.....	8288	E1186	.....	7456	E1282.2	.....	7789
E1065.62	.....	8503.2	E1118	.....	8292	E1186.1	.....	7460	E1282.4	.....	7790
E1065.625	.....	8503.4	E1119	.....	8296	E1188	.....	7484	E1283	.....	7788
E1065.63	.....	8503.65	E1119.2	.....	8290	E1193	.....	7490	E1284	.....	7784
E1065.64	.....	8503.6	E1120	.....	8300	E1194	.....	7492	E1285	.....	7780
E1065.67	.....	8503.85	E1122	.....	8284	E1196	.....	7500	E1285.2	.....	7772
E1065.68	.....	8503.8	E1122.6	.....	8285	E1197	.....	7496	E1285.4	.....	7776
E1065.9	.....	8503.9	E1124	.....	8276	E1198	.....	7504	E1288	.....	7768
E1066	.....	8488	E1126	.....	8280	E1199	.....	7508	E1290	.....	7764

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
E1292	.....	7760	E1438	.....	8952	E1541.3	.....	9204	E1636	.....	9440
E1300	.....	7732	E1439	.....	8956	E1541.35	.....	9209	E1647	.....	9468
E1302	.....	7736	E1440	.....	8960	E1541.6	.....	9212	E1647.5	.....	9465
E1304	.....	7740	E1441	.....	8964	E1542	.....	9244	E1648	.....	9464
E1312	.....	7744	E1444	.....	8884	E1550	.....	9248	E1650	.....	9476
E1312.1	.....	7748	E1446	.....	8992	E1551	.....	9252	E1652	.....	9452
E1318	.....	7756	E1448	.....	8968	E1552	.....	9256	E1653	.....	9456
E1319	.....	7752	E1450	.....	8972	E1554	.....	9260	E1654	.....	9460
E1323	.....	7728	E1454	.....	8976	E1558	.....	9264	E1658	.....	9480
E1324	.....	7824	E1455	.....	8996	E1560	.....	9268	E1662	.....	9484
E1326	.....	7828	E1456	.....	9000	E1562	.....	9272	E1663	.....	9492
E1328	.....	7832	E1457	.....	9008	E1564	.....	9276	E1664	.....	9488
E1329	.....	7836	E1458	.....	9004	E1565	.....	9280	E1664.2	.....	9496
E1330	.....	7840	E1459	.....	9012	E1565.1	.....	9284	E1667	.....	9500
E1330.4	.....	7844	E1460	.....	9016	E1566	.....	9288	E1669	.....	9508
E1331	.....	7848	E1461	.....	9020	E1567	.....	9292	E1678	.....	9516
E1334	.....	7852	E1462	.....	9024	E1568	.....	9294	E1679	.....	9520
E1340	.....	7856	E1462.1	.....	9028	E1570	.....	9296	E1680	.....	9524
E1341	.....	7864	E1466	.....	9032	E1570.2	.....	9300	E1681	.....	9528
E1342	.....	7860	E1466.2	.....	9036	E1572	.....	9308	E1684	.....	9536
E1347	.....	7868	E1466.4	.....	9040	E1573	.....	9304	E1685	.....	9532
E1347.8	.....	7872	E1468	.....	9044	E1574	.....	9310	E1687	.....	9538
E1348	.....	7876	E1470	.....	9048	E1575.5	.....	9312	E1692	.....	9540
E1348.5	.....	7874	E1472	.....	9052	E1577	.....	9216	E1693	.....	9544
E1356	.....	7892	E1474	.....	9056	E1577.2	.....	9220	E1694	.....	9548
E1358	.....	7880	E1476	.....	9060	E1580	.....	9228	E1695	.....	9552
E1359	.....	7882	E1477	.....	9064	E1582	.....	9240	E1696	.....	9556
E1360	.....	7896	E1477.5	.....	9068	E1583	.....	9236	E1698	.....	9560
E1368	.....	7888	E1478	.....	9072	E1584	.....	9232	E1700	.....	9564
E1370	.....	7884	E1480	.....	9076	E1588	.....	9224	E1702	.....	9568
E1374	.....	7924	E1481	.....	9088	E1592	.....	9320	E1706	.....	9572
E1376.2	.....	7912	E1482	.....	9084	E1594	.....	9324	E1708	.....	9576
E1376.4	.....	7916	E1483	.....	9080	E1595	.....	9326	E1710	.....	9580
E1380	.....	7920	E1486	.....	9092	E1598	.....	9328	E1711	.....	9584
E1380.2	.....	7928	E1488	.....	9096	E1600	.....	9332	E1716	.....	9588
E1380.4	.....	7932	E1490	.....	9100	E1600.5	.....	9333	E1718	.....	9592
E1381	.....	7936	E1492	.....	9104	E1606	.....	9340	E1720	.....	9596
E1382	.....	7940	E1496	.....	9108	E1606.2	.....	9341	E1722	.....	9600
E1384	.....	8980	E1500	.....	9112	E1608	.....	9344	E1730	.....	9604
E1388.4	.....	8984	E1502	.....	9116	E1610	.....	9348	E1730.2	.....	9612
E1390	.....	8988	E1503	.....	9120	E1612	.....	9352	E1730.4	.....	9616
E1392	.....	8852	E1504	.....	9124	E1614	.....	9356	E1733	.....	9620
E1394	.....	8856	E1504.4	.....	9128	E1614.3	.....	9360	E1733.5	.....	9624
E1396	.....	8860	E1505	.....	9137.5	E1615	.....	9362	E1734	.....	9626
E1400	.....	8864	E1505.2	.....	9137	E1615.2	.....	9363	E1734.3	.....	9627
E1401	.....	8872	E1506	.....	9136	E1616	.....	9368	E1735	.....	9632
E1402	.....	8868	E1506.2	.....	9138	E1617	.....	9372	E1737	.....	9628
E1403	.....	8876	E1507	.....	9139	E1618	.....	9364	E1738	.....	9636
E1404	.....	8880	E1508	.....	9132	E1619	.....	9376	E1739	.....	9640
E1408	.....	8888	E1510	.....	9140	E1620	.....	9380	E1739.2	.....	9644
E1409	.....	8890	E1513	.....	9152	E1622	.....	9384	E1739.4	.....	9648
E1410	.....	8892	E1514	.....	9148	E1623	.....	9388	E1739.7	.....	9650
E1412	.....	8896	E1518	.....	9156	E1625	.....	9392	E1739.8	.....	9650.1
E1414	.....	8916	E1518.5	.....	9154	E1625.2	.....	9396	E1740	.....	9652
E1415	.....	8900	E1518.7	.....	9154.5	E1626	.....	9404	E1741	.....	9656
E1416	.....	8904	E1519	.....	9160	E1626.2	.....	9408	E1742	.....	9660
E1417	.....	8920	E1519.4	.....	9164	E1626.4	.....	9412	E1743	.....	9661
E1417.2	.....	8924	E1524	.....	9168	E1626.6	.....	9416	E1743.2	.....	9662
E1423	.....	8932	E1526	.....	9180	E1628.4	.....	9400	E1746	.....	9664
E1424	.....	8928	E1526.2	.....	9176	E1628.7	.....	9420	E1747	.....	9668
E1428	.....	8936	E1526.3	.....	9172	E1629	.....	9424	E1747.2	.....	9674
E1429	.....	8934	E1538	.....	9192	E1629.4	.....	9428	E1747.3	.....	9672
E1432	.....	8948	E1540.5	.....	9196	E1631	.....	9432	E1750	.....	9676
E1434	.....	8944	E1541	.....	9200	E1632	.....	9436	E1752	.....	9680
E1436	.....	8940	E1541.2	.....	9208	E1634	.....	9444	E1756	.....	9684

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
E1756.5		9688	E1846.1		10332	E1900.2		10168	E2011		9917
E1757		9692	E1847		10320	E1900.4		10164	E2012		9917.5
E1758		9696	E1848		10324	E1900.6		10160	E2013		9910
E1760		9700	E1849		10336	E1902		10152	E2014		9912
E1762		9704	E1849.4		10337	E1902.2		10156	E2019		9916
E1763		9704.5	E1849.6		10338	E1904		10128	E2023		9900
E1763.2		9704.7	E1850		10340	E1905		10144	E2025		9892
E1763.35		9704.6	E1851		10344	E1906		10136	E2026		9896
E1764		9705	E1851.3		10348	E1907		10137	E2030		9876
E1764.1		9705.1	E1852		10352	E1908		10132	E2035		9868
E1764.3		9706	E1852.5		10354	E1912		10140	E2035.2		9870
E1764.31		9706.7	E1852.6		10355	E1912.5		10138	E2036		9860
E1766		9708	E1853		10356	E1914		10126	E2037.4		9864
E1769		9716	E1853.2		10358	E1916		10120	E2038		9856
E1770		9720	E1854		10364	E1918		10116	E2042		9796
E1772		9724	E1855		10368	E1920		10124	E2044		9800
E1773		9728	E1855.2		10372	E1922		10112	E2044.2		9808
E1773.6		9732	E1856		10376	E1926		10096	E2044.4		9812
E1776		9736	E1856.5		10378	E1926.2		10100	E2045		9816
E1777		9740	E1857		10380	E1927		10104	E2045.3		9820
E1780		9744	E1857.4		10384	E1928		10108	E2045.4		9804
E1780.5		9748	E1858		10386	E1928.5		10094	E2045.7		9822
E1780.6		9752	E1858.1		10387	E1928.7		10095	E2046		9792
E1780.7		9756	E1858.2		10388	E1930		10092	E2050		10504
E1780.8		9760	E1858.3		10389	E1932		10080	E2051		10508
E1781		9764	E1858.4		10390	E1932.5		10082	E2051.2		10512
E1782		10580	E1858.6		10391	E1933		10084	E2053.5		10514
E1784		9847	E1859		10316	E1938		10076	E2054		10516
E1785		9846	E1860		10308	E1938.3		10078	E2055.5		10524
E1786		9824	E1861		10306	E1940		10064	E2057		10528
E1786.3		9825	E1861.5		10305	E1942		10068	E2061.5		10544
E1788		9828	E1861.8		10282	E1944		10072	E2062		10548
E1790		9832	E1862		10276	E1947.5		10018	E2064		10552
E1792		9836	E1862.4		10280	E1948		10016	E2068		10560
E1792.7		9830	E1862.5		10284	E1949		10024	E2070		10564
E1793		9838	E1862.51		10288	E1950		10028	E2070.4		10566
E1796		9852	E1862.59		10292	E1952		10020	E2070.6		10565
E1798		9848	E1862.6		10296	E1956		10004	E2076		10572
E1800		9840	E1862.61		10300	E1958		10012	E2080		10472
E1802		9844	E1862.8		10304	E1960		10008	E2082		10468
E1806		9784	E1862.9		10304.5	E1962		10000	E2084		10476
E1809		9788	E1864		10268	E1966		10032	E2086		10464
E1810		9785	E1865		10272	E1968		10036	E2088		10444
E1810.1		9785.1	E1866		10248	E1970		10044	E2089		10448
E1810.2		9786	E1867		10244	E1976		10048	E2090		10460
E1810.21		9786.1	E1868		10252	E1978		10052	E2091		10456
E1813		9766	E1868.1		10256	E1979.2		10060	E2092		10452
E1814		9768	E1870		10260	E1982		10040	E2094		10480
E1816		9772	E1876		10240	E1986		9988	E2096		10496
E1817		9776	E1878		10236	E1987		9992	E2098		10500
E1818		9780	E1879		10232	E1988		9996	E2106		10492
E1821		10434	E1880		10230	E1990		9984	E2107		10484
E1822		10436	E1882		10224	E1992		9968	E2108		10584
E1823		10440	E1884		10228	E1993		9980	E2109		10588
E1824		10442	E1885		10216	E1993.5		9972	E2111.4		10592
E1826		10432	E1885.4		10220	E1993.6		9976	E2112		10596
E1827		10428	E1886		10212	E1994		9940	E2118		10600
E1828		10400	E1888		10208	E1994.2		9948	E2120		10620
E1830		10420	E1890		10196	E1996		9956	E2121		10616
E1831		10424	E1891		10200	E1997		9960	E2121.5		10612
E1832		10404	E1892		10192	E2000		9964	E2122		10604
E1832.5		10408	E1894		10188	E2004		9936	E2123		10608
E1836		10396	E1896		10184	E2005		9924	E2128		10624
E1838		10392	E1898		10180	E2008		9908	E2130		10628
E1846		10328	E1900		10172	E2010		9914	E2130.5		10630

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
E2130.6		10631	E2214		10844	E2307.7		11120	E2418		11376
E2130.61		10631.1	E2216		10840	E2308		11124	E2419		11384
E2131		10632	E2222		10856	E2312		11128	E2420		11388
E2131.2		10636	E2223		10860	E2313		11132	E2421		11392
E2132		10640	E2223.4		10864	E2314		11140	E2422		11396
E2133		10642	E2224		10868	E2315		11136	E2426		11400
E2134		10644	E2226		10872	E2315.1		11138	E2428		11404
E2138		10648	E2228		10876	E2315.6		11142	E2430		11408
E2142.3		10650	E2229		10880	E2317		11143	E2432		11424
E2142.4		10656	E2230		10884	E2317.2		11143.5	E2433		11420
E2142.5		10660	E2230.4		10886	E2318		11148	E2434		11428
E2142.6		10664	E2231		10888	E2319		11144	E2440		11436
E2142.9		10748	E2232		10892	E2320		11152	E2441		11438
E2142.92		10744	E2233		10896	E2324		11156	E2443		11448
E2143		10672	E2234		10908	E2325		11160	E2443.3		11449
E2143.2		10676	E2235.2		10914	E2326		11164	E2450		11452
E2144		10677	E2236		10900	E2326.2		11168	E2451		11456
E2144.4		10708	E2238		10920	E2332		11176	E2452		11460
E2144.43		10712	E2240		10916	E2333		11180	E2453		11464
E2144.44		10716	E2241		10904	E2334		11184	E2456		11468
E2144.45		10720	E2242		10928	E2335		11172	E2458		11476
E2144.47		10718	E2243		10924	E2336		11188	E2462		11480
E2144.48		10719	E2244		10932	E2337		11190	E2463		11490
E2144.5		10724	E2246		10936	E2337.2		11192	E2464		11488
E2145		10700	E2246.2		10940	E2337.6		11208	E2464.4		11492
E2145.2		10702	E2247		10944	E2338		11200	E2465		11484
E2146		10704	E2247.3		10948	E2338.2		11204	E2466		11500
E2150		10680	E2248		10952	E2339		11196	E2467		11496
E2150.1		10684	E2250		10960	E2344		11216	E2468		11504
E2152		10688	E2252		10956	E2346		11224	E2480		11516
E2152.1		10692	E2254		10964	E2347		11228	E2481		11508
E2153		10696	E2258		10968	E2348		11232	E2484		11520
E2158.4		10694	E2260		10976	E2349		11220	E2485		11532
E2162		10728	E2261		10972	E2350		11236	E2486		11524
E2162.2		10732	E2262		10980	E2351.5		11244	E2486.1		11528
E2162.4		10736	E2264		10984	E2352		11248	E2488		11536
E2162.6		10740	E2266		10988	E2352.5		11252	E2488.4		11530
E2164		10752	E2268		10996	E2354		11264	E2488.5		11531
E2164.1		10756	E2270		10998	E2358		11276	E2488.7		11534
E2168		10760	E2274.4		11000	E2359		11268	E2488.8		11535
E2170		10768	E2274.6		11004	E2360		11272	E2489		11544
E2172		10764	E2275		11008	E2362		11280	E2490		11540
E2172.2		10765	E2276		11012	E2364		11284	E2490.8		11545
E2173		10772	E2277		11016	E2366		11288	E2491		11546
E2174		10776	E2278		11020	E2368		11292	E2492		11548
E2174.4		10778	E2281		11024	E2372		11296	E2504		11556
E2176		10780	E2282		11028	E2374		11300	E2504.2		11557
E2177		10784	E2284		11032	E2376		11304	E2505		11558
E2178		10788	E2286		11036	E2381		11308	E2506		11560
E2182		10792	E2288		11040	E2382		11312	E2506.4		11564
E2186		10796	E2288.4		11044	E2384		11316	E2508		11568
E2188		10800	E2290		11048	E2388.2		11318	E2518		11572
E2190		10804	E2294		11076	E2390		11320	E2519.5		11574
E2192		10808	E2296		11064	E2393		11336	E2520		11580
E2194		10812	E2297		11072	E2394		11324	E2520.4		11584
E2196		10816	E2298		11068	E2396		11328	E2520.5		11588
E2198		10822.5	E2300		11060	E2397		11332	E2521		11576
E2202		10846	E2303		11080	E2404		11340	E2524		11592
E2203		10830	E2304		11084	E2405		11344	E2524.3		11604
E2203.4		10823	E2304.2		11088	E2406		11348	E2524.5		11600
E2204		10824	E2305		11092	E2411		11352	E2524.7		11596
E2206		10828	E2306		11100	E2412		11360	E2525.7		11608
E2208		10822	E2307		11104	E2413		11356	E2526		11612
E2210		10836	E2307.2		11108	E2417.8		11380	E2528		11616
E2212		10832	E2307.5		11112	E2417.85		11382	E2530		11620

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
E2534	.....	11624	E2649	.....	11884	E2788	.....	12164	E2902	.....	12404
E2536	.....	11628	E2652	.....	11888	E2790	.....	12168	E2903.3	.....	12428
E2537.5	.....	11630	E2654	.....	11892	E2792	.....	12160	E2904	.....	12476
E2538	.....	11632	E2655	.....	11896	E2794	.....	12104	E2905	.....	12480
E2540	.....	11634	E2656	.....	11900	E2798	.....	12108	E2906	.....	12388
E2543	.....	11635	E2658	.....	11904	E2799	.....	12112	E2908	.....	12412
E2544	.....	11636	E2660	.....	11905	E2799.2	.....	12180	E2910	.....	12416
E2545	.....	11640	E2660.2	.....	11906	E2799.4	.....	12176	E2912	.....	12420
E2547	.....	11648	E2662	.....	11908	E2799.6	.....	12184	E2914	.....	12424
E2548	.....	11644	E2663	.....	11912	E2801	.....	12188	E2916	.....	12432
E2550	.....	11652	E2665	.....	11920	E2802	.....	12172	E2922	.....	12444
E2551	.....	11656	E2668	.....	11928	E2804	.....	12200	E2923	.....	12436
E2553	.....	11660	E2670	.....	11924	E2810	.....	12204	E2926	.....	12448
E2554	.....	11664	E2672	.....	11932	E2812	.....	12208	E2928	.....	12452
E2555	.....	11668	E2674	.....	11936	E2816	.....	12212	E2929	.....	12456
E2556	.....	11670	E2676	.....	11940	E2817	.....	12216	E2938	.....	12568
E2557	.....	11706	E2680	.....	11944	E2818	.....	12220	E2940	.....	12548
E2558	.....	11676	E2682	.....	11956	E2820	.....	12224	E2941	.....	12552
E2560	.....	11680	E2684	.....	11948	E2822	.....	12228	E2942	.....	12556
E2561	.....	11684	E2686	.....	11952	E2824	.....	12240	E2942.3	.....	12558
E2562	.....	11688	E2690	.....	11960	E2828	.....	12244	E2942.4	.....	12560
E2565	.....	11700	E2692	.....	11972	E2829	.....	12226	E2942.5	.....	12564
E2566	.....	11704	E2694	.....	11980	E2830	.....	12232	E2943	.....	12576
E2568	.....	11696	E2696	.....	11976	E2840	.....	12252	E2944	.....	12580
E2569	.....	11692	E2700	.....	11988	E2842	.....	12248	E2945	.....	12646.5
E2576	.....	11708	E2706	.....	11992	E2843	.....	12254	E2946	.....	12646
E2578	.....	11712	E2710	.....	11996	E2844	.....	12256	E2948	.....	12584
E2580	.....	11724	E2712	.....	11968	E2850	.....	12336	E2950	.....	12704
E2582	.....	11728	E2718	.....	12000	E2854	.....	12348	E2951	.....	12696
E2586	.....	11732	E2720	.....	12004	E2854.2	.....	12344	E2952	.....	12700
E2587	.....	11736	E2721	.....	12008	E2855	.....	12340	E2953	.....	12688
E2588	.....	11716	E2721.2	.....	12012	E2856	.....	12352	E2954	.....	12692
E2588.2	.....	11717	E2724	.....	12016	E2857	.....	12356	E2960	.....	12708
E2592	.....	11744	E2726	.....	12020	E2862	.....	12360	E2962	.....	12712
E2593	.....	11748	E2727	.....	12032	E2863	.....	12532	E2964	.....	12728
E2595	.....	11792	E2728	.....	12024	E2864	.....	12536	E2966	.....	12732
E2596	.....	11796	E2730	.....	12028	E2864.1	.....	12540	E2970	.....	12736
E2597	.....	11764	E2734	.....	12036	E2866	.....	12528	E2971	.....	12744
E2597.2	.....	11768	E2738	.....	12040	E2866.5	.....	12526	E2972	.....	12740
E2598	.....	11760	E2738.2	.....	12052	E2867	.....	12524	E2973	.....	12748
E2601	.....	11756	E2742	.....	12048	E2867.4	.....	12520	E2973.1	.....	12752
E2601.4	.....	11772	E2744	.....	12116	E2868	.....	12516	E2973.3	.....	12756
E2602	.....	11788	E2748	.....	12056	E2869	.....	12512	E2973.4	.....	12760
E2602.2	.....	11784	E2750	.....	12060	E2870	.....	12508	E2973.6	.....	12764
E2603	.....	11776	E2751	.....	12064	E2870.4	.....	12504	E2974	.....	12768
E2603.1	.....	11780	E2752	.....	12120	E2872	.....	12472	E2975	.....	12588
E2604	.....	11800	E2754	.....	12124	E2873	.....	12196	E2976	.....	12592
E2605	.....	11808	E2756	.....	12128	E2874	.....	12496	E2977	.....	12594
E2607	.....	11812	E2758	.....	12140	E2876	.....	12500	E2978	.....	12596
E2608	.....	11834	E2759	.....	12144	E2880	.....	12488	E2982	.....	12600
E2612	.....	11832	E2760	.....	12132	E2882	.....	12492	E2984	.....	12608
E2614	.....	11828	E2761	.....	12136	E2884	.....	12484	E2986	.....	12612
E2618	.....	11836	E2762	.....	12148	E2886	.....	12468	E2988	.....	12624
E2620	.....	11840	E2764	.....	12152	E2886.4	.....	12464	E2992	.....	12620
E2622	.....	11844	E2768	.....	12068	E2887	.....	12460	E2994	.....	12616
E2624	.....	11848	E2769	.....	12072	E2888	.....	12544	E2995	.....	12604
E2628	.....	11856	E2770	.....	12076	E2890	.....	12364	E2995.6	.....	12640
E2630	.....	11852	E2772	.....	12080	E2892	.....	12368	E2995.8	.....	12647
E2632	.....	11860	E2773	.....	12084	E2894	.....	12376	E2996	.....	12636
E2634	.....	11864	E2774	.....	12088	E2895	.....	12380	E2997	.....	12644
E2642	.....	11868	E2776	.....	12092	E2896	.....	12384	E2998	.....	12632
E2643	.....	11870	E2780	.....	12096	E2898	.....	12392	E3002	.....	12332
E2644	.....	11872	E2782	.....	12100	E2899	.....	12396	E3004	.....	12328
E2646	.....	11876	E2783	.....	12102	E2900	.....	12400	E3006	.....	12324
E2648	.....	11880	E2784	.....	12156	E2901	.....	12408	E3008	.....	12320

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
E3012	.....	12316	E3116.2	.....	12940	E3218	.....	13104	E3295	.....	13352
E3014	.....	12312	E3116.3	.....	12938	E3219	.....	13124	E3295.4	.....	13356
E3016	.....	12308	E3116.4	.....	12944	E3220	.....	13120	E3296	.....	13360
E3019	.....	12304	E3117	.....	12948	E3222	.....	13132	E3297	.....	13364
E3022	.....	12280	E3119	.....	12888	E3224	.....	13128	E3298	.....	13368
E3023	.....	12284	E3120	.....	12884	E3225	.....	13136	E3299	.....	13372
E3024	.....	12288	E3121.5	.....	12878	E3225.1	.....	13138	E3299.4	.....	13376
E3026	.....	12292	E3121.7	.....	12879	E3225.2	.....	13140	E3300	.....	13380
E3028	.....	12296	E3122	.....	12880	E3225.3	.....	13142	E3302	.....	13384
E3029	.....	12300	E3124	.....	12892	E3226	.....	13304	E3304	.....	13388
E3032	.....	12276	E3127	.....	12897	E3227	.....	13292	E3306	.....	13392
E3034	.....	12268	E3127.4	.....	12898	E3227.7	.....	13298	E3308	.....	13396
E3036	.....	12260	E3131	.....	12902	E3228	.....	13300	E3314	.....	13400
E3038	.....	12264	E3132	.....	12904	E3228.5	.....	13276	E3316	.....	13432
E3042	.....	12272	E3132.3	.....	12906	E3229	.....	13280	E3318	.....	13434
E3043	.....	12273	E3132.5	.....	12875.5	E3229.2	.....	13296	E3320	.....	13456
E3044	.....	12772	E3132.8	.....	12875	E3229.5	.....	13272	E3322	.....	13460
E3045	.....	12776	E3133	.....	12874.5	E3229.7	.....	13284	E3323	.....	13448
E3046	.....	12780	E3133.5	.....	12874	E3229.8	.....	13288	E3324	.....	13452
E3048	.....	12784	E3134	.....	12872	E3230	.....	13152	E3325	.....	13464
E3050	.....	12788	E3140	.....	12988	E3230.5	.....	13148	E3325.4	.....	13472
E3052	.....	12800	E3142	.....	12992	E3231	.....	13144	E3326	.....	13468
E3054	.....	12792	E3144	.....	12996	E3232	.....	13164	E3327	.....	13436
E3058	.....	12796	E3148	.....	13000	E3234	.....	13112	E3328	.....	13440
E3060	.....	12804	E3150	.....	12954	E3236	.....	13168	E3328.4	.....	13444
E3064	.....	12808	E3151	.....	12954.5	E3238	.....	13160	E3328.5	.....	13446
E3066	.....	12812	E3152	.....	12956	E3240	.....	13156	E3330	.....	13476
E3068	.....	12820	E3154	.....	12960	E3242	.....	13180	E3331	.....	13428
E3072	.....	12816	E3156	.....	12964	E3243	.....	13176	E3331.2	.....	13427
E3075	.....	12648	E3157	.....	12968	E3244	.....	13172	E3331.5	.....	13370
E3076	.....	12652	E3158	.....	12972	E3248	.....	13184	E3332	.....	13508
E3077	.....	12656	E3160	.....	12976	E3250	.....	13188	E3334	.....	13512
E3078	.....	12660	E3164	.....	12980	E3251	.....	13192	E3336	.....	13516
E3080	.....	12664	E3165	.....	12984	E3252	.....	13200	E3338	.....	13520
E3081	.....	12824	E3166	.....	12985	E3256	.....	13196	E3340	.....	13524
E3082	.....	12668	E3167	.....	12986	E3258	.....	13212	E3342	.....	13528
E3083	.....	12676	E3167.5	.....	13003	E3260	.....	13204	E3344	.....	13532
E3084	.....	12672	E3168	.....	13004	E3262	.....	13208	E3346	.....	13536
E3086	.....	12684	E3170	.....	13008	E3263	.....	13216	E3349	.....	13408
E3087	.....	12680	E3172	.....	13010	E3264	.....	13220	E3350	.....	13416
E3087.4	.....	12720	E3174	.....	13016	E3265.5	.....	13230	E3351	.....	13418
E3088	.....	12716	E3175	.....	13020	E3266	.....	13224	E3352	.....	13412
E3089	.....	12724	E3176	.....	13024	E3267	.....	13232	E3354	.....	13420
E3090	.....	12828	E3177	.....	13028	E3274	.....	13268	E3356	.....	13424
E3092	.....	12832	E3178	.....	13029	E3275	.....	13260	E3358	.....	13480
E3093	.....	12836	E3179	.....	13012	E3275.5	.....	13264	E3360	.....	13484
E3094.4	.....	12844	E3180	.....	13032	E3276	.....	13256	E3361	.....	13486
E3095	.....	12856	E3181	.....	13036	E3276.6	.....	13258	E3364	.....	13540
E3096	.....	12852	E3183	.....	13040	E3277	.....	13236	E3366	.....	13545
E3097	.....	12860	E3184	.....	13044	E3278	.....	13240	E3366.2	.....	13544
E3097.4	.....	12848	E3185	.....	13052	E3279	.....	13248	E3368	.....	13548
E3098	.....	12864	E3186	.....	13048	E3280	.....	13252	E3370	.....	13552
E3099	.....	12868	E3188	.....	13056	E3282	.....	13316	E3376	.....	13492
E3099.5	.....	12870	E3191	.....	13058	E3283	.....	13308	E3378	.....	13496
E3100	.....	12876	E3193	.....	13060	E3284	.....	13312	E3380	.....	13556
E3106	.....	12908	E3194	.....	13062	E3285	.....	13320	E3384	.....	13560
E3106.4	.....	12952	E3196	.....	13064	E3285.5	.....	13318	E3386	.....	13502
E3107	.....	12912	E3200	.....	13080	E3285.51	.....	13319	E3388	.....	13580
E3107.2	.....	12916	E3202	.....	13076	E3286	.....	13324	E3390	.....	13584
E3107.5	.....	12918	E3204	.....	13088	E3287	.....	13336	E3392	.....	13564
E3108	.....	12920	E3205	.....	13068	E3288	.....	13328	E3393	.....	13586
E3110	.....	12924	E3206	.....	13084	E3290	.....	13332	E3394	.....	13588
E3112	.....	12928	E3208	.....	13092	E3292	.....	13340	E3395	.....	13590
E3115	.....	12932	E3212	.....	13096	E3293	.....	13344	E3396	.....	13568
E3116	.....	12936	E3214	.....	13072	E3294	.....	13348	E3398	.....	13572

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
E3400	.....	13576	E3501	.....	13736	E3614.5	.....	14084	E3727	.....	14344
E3404	.....	13596	E3501.2	.....	13740	E3615	.....	14096	E3728	.....	14340
E3405	.....	13598	E3501.4	.....	13744	E3616	.....	14092	E3729	.....	14348
E3406	.....	13600	E3501.6	.....	13746	E3620	.....	14100	E3729.1	.....	14350
E3408	.....	13604	E3502	.....	13752	E3622	.....	14104	E3730	.....	14351
E3409	.....	13608	E3504	.....	13756	E3623	.....	14108	E3731	.....	14360
E3410	.....	13612	E3516	.....	13764	E3624	.....	14112	E3732	.....	14352
E3412	.....	13616	E3520	.....	13808	E3628	.....	14116	E3732.5	.....	14338
E3412.4	.....	13620	E3521	.....	13792	E3630	.....	14120	E3734	.....	14368
E3412.6	.....	13624	E3521.3	.....	13796	E3632	.....	14124	E3734.5	.....	14370
E3413	.....	13636	E3521.5	.....	13800	E3637	.....	14160	E3738	.....	14380
E3413.1	.....	13638	E3522	.....	13804	E3638	.....	14156	E3739	.....	14384
E3414	.....	13632	E3526	.....	13772	E3639	.....	14148	E3740	.....	14388
E3416	.....	13640	E3528	.....	13776	E3643	.....	14152	E3741	.....	14372
E3418	.....	13628	E3530	.....	13780	E3644	.....	14144	E3742.5	.....	14374
E3420	.....	13648	E3531	.....	13784	E3645	.....	14140	E3749	.....	14390
E3422	.....	13652	E3532	.....	13788	E3646	.....	14136	E3750	.....	14392
E3426	.....	13644	E3536	.....	13948	E3647	.....	14132	E3754	.....	14396
E3428	.....	13656	E3537	.....	13952	E3648	.....	14128	E3754.5	.....	14398
E3431	.....	13660	E3537.4	.....	13956	E3652	.....	14164	E3755	.....	14414
E3431.5	.....	13592	E3537.5	.....	13960	E3654	.....	14168	E3756	.....	14430
E3432	.....	13672	E3537.6	.....	13964	E3655	.....	14176	E3757	.....	14428
E3434	.....	13676	E3538	.....	13904	E3656	.....	14172	E3758	.....	14424
E3436	.....	13680	E3544	.....	13912	E3658	.....	14180	E3760	.....	14416
E3438	.....	13684	E3545	.....	13908	E3660	.....	14184	E3761	.....	14420
E3439	.....	13688	E3546	.....	13932	E3661	.....	14188	E3761.4	.....	14421
E3440	.....	13692	E3548	.....	13920	E3662	.....	14192	E3762	.....	14423
E3442	.....	13696	E3550	.....	13916	E3662.4	.....	14193	E3773	.....	14432
E3443	.....	13700	E3551	.....	13940	E3663	.....	14200	E3774	.....	14400
E3444	.....	13704	E3552	.....	13936	E3664	.....	14196	E3776	.....	14436
E3445	.....	13708	E3554	.....	13944	E3666	.....	14204	E3778	.....	14440
E3446	.....	13712	E3556	.....	13968	E3670	.....	14208	E3779	.....	14444
E3448	.....	13716	E3558	.....	13975	E3674	.....	14212	E3780	.....	14448
E3450	.....	13720	E3560	.....	13980	E3676	.....	14216	E3781	.....	14449
E3451	.....	13724	E3561	.....	13984	E3678	.....	14220	E3781.5	.....	14452
E3452	.....	13900	E3562	.....	13988	E3682	.....	14224	E3782	.....	14456
E3454	.....	13888	E3564	.....	13990	E3684	.....	14236	E3783	.....	14460
E3458	.....	13892	E3566	.....	13992	E3685	.....	14240	E3784	.....	14464
E3460	.....	13896	E3570	.....	13996	E3686	.....	14244	E3784.2	.....	14468
E3461	.....	13884	E3575	.....	14000	E3687	.....	14250	E3785	.....	14472
E3463	.....	13876	E3576	.....	14016	E3688	.....	14248	E3786	.....	14476
E3464	.....	13878	E3578	.....	14020	E3690	.....	14260	E3788	.....	14480
E3470	.....	13832	E3579	.....	14030	E3691	.....	14268	E3791.2	.....	14494
E3470.5	.....	13834	E3580	.....	14004	E3693	.....	14269	E3792	.....	14484
E3471	.....	13836	E3582	.....	14008	E3696	.....	14272	E3794	.....	14488
E3476	.....	13840	E3584	.....	14012	E3698	.....	14276	E3794.5	.....	14492
E3477	.....	13844	E3586	.....	11052	E3702	.....	14280	E3794.7	.....	14489
E3478	.....	13848	E3588	.....	11056	E3702.5	.....	14282	E3795	.....	14491
E3479	.....	13852	E3590	.....	14024	E3703	.....	14284	E3795.6	.....	14490
E3480	.....	13856	E3592	.....	14028	E3703.1	.....	14288	E3795.7	.....	14491.5
E3481	.....	13860	E3595	.....	14032	E3704	.....	14292	E3796	.....	14496
E3482	.....	13864	E3595.5	.....	14031	E3705	.....	14296	E3800	.....	14500
E3486	.....	13872	E3596	.....	14036	E3708	.....	14300	E3804	.....	14504
E3486.5	.....	13828	E3598	.....	14040	E3711	.....	14304	E3804.1	.....	14508
E3487	.....	13824	E3600	.....	14044	E3712	.....	14312	E3806	.....	14512
E3488	.....	13820	E3601.7	.....	14050.5	E3714	.....	14316	E3808	.....	14520
E3488.5	.....	13814	E3602	.....	14052	E3714.1	.....	14310	E3809	.....	14518
E3490	.....	13664	E3602.1	.....	14056	E3714.15	.....	14310.1	E3810	.....	14522
E3492	.....	13668	E3604	.....	14048	E3719	.....	14320	E3811	.....	14524
E3496	.....	13812	E3610	.....	14060	E3720	.....	14322	E3812	.....	14556
E3498	.....	13813	E3612	.....	14064	E3721	.....	14324	E3814	.....	14548
E3499.2	.....	13749	E3613	.....	14068	E3723	.....	14328	E3816	.....	14544
E3499.3	.....	13748	E3613.7	.....	14076	E3725	.....	14332	E3817	.....	14540
E3499.5	.....	13748.5	E3613.8	.....	14080	E3726	.....	14336	E3818	.....	14542
E3500.5	.....	13732	E3614	.....	14088	E3726.5	.....	14337	E3820	.....	14536

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
E3822	.....	14533	E3954.22	.....	14798.5	E4058	.....	15016	E4141.6	.....	15280
E3824	.....	14532	E3956	.....	14804	E4060	.....	15020	E4141.64	.....	15284
E3832	.....	14560	E3958	.....	14812	E4062	.....	15024	E4141.66	.....	15288
E3834	.....	14564	E3960	.....	14816	E4065	.....	15064	E4141.7	.....	15292
E3835	.....	14568	E3962	.....	14820	E4066	.....	15048	E4141.8	.....	15296
E3836	.....	14572	E3962.4	.....	14808	E4068	.....	15052	E4141.9	.....	15300
E3837	.....	14576	E3963	.....	14824	E4070	.....	15060	E4142	.....	15304
E3840	.....	14580	E3964	.....	14828	E4070.3	.....	15062	E4143	.....	15308
E3842	.....	14584	E3965	.....	14834	E4070.6	.....	15068	E4144	.....	15252
E3844	.....	14588	E3965.03	.....	14834.3	E4071	.....	15050	E4148	.....	15256
E3846	.....	14612	E3965.07	.....	14834.7	E4072	.....	15076	E4149	.....	15260
E3850	.....	14592	E3965.1	.....	14835	E4072.4	.....	15080	E4150	.....	15264
E3852	.....	14596	E3965.13	.....	14835.3	E4073	.....	15028	E4151	.....	15270
E3853	.....	14600	E3965.16	.....	14835.7	E4074	.....	15036	E4152	.....	15268
E3854	.....	14604	E3965.2	.....	14836	E4076	.....	15040	E4153	.....	15266
E3855	.....	14608	E3965.4	.....	14838	E4078	.....	15044	E4154	.....	15248
E3858	.....	14648	E3967	.....	14868	E4080	.....	15092	E4158	.....	15272
E3859	.....	14652	E3970	.....	14832	E4081	.....	15096	E4160	.....	15312
E3860	.....	14656	E3971	.....	14840	E4082	.....	15100	E4160.4	.....	15316
E3861	.....	14660	E3972	.....	14844	E4086	.....	15104	E4162	.....	15320
E3862	.....	14664	E3973	.....	14864	E4088	.....	15084	E4163	.....	15346
E3864	.....	14668	E3974	.....	14848	E4090	.....	15088	E4163.2	.....	15347
E3866	.....	14644	E3976	.....	14852	E4092	.....	15108	E4163.3	.....	15344
E3868	.....	14700	E3977	.....	14856	E4094	.....	15112	E4163.5	.....	15348
E3869	.....	14696	E3978.9	.....	14857	E4096	.....	15116	E4163.6	.....	15352
E3869.4	.....	14688	E3978.91	.....	14857.1	E4098	.....	15120	E4164	.....	15336
E3869.42	.....	14690	E3979	.....	14860	E4099	.....	15188	E4164.4	.....	15340
E3869.7	.....	14692	E3984	.....	14724	E4100	.....	15176	E4165	.....	15356
E3870	.....	14684	E3985	.....	14726	E4101	.....	15180	E4167	.....	15328
E3872	.....	14680	E3986	.....	14728	E4102	.....	15184	E4168	.....	15324
E3874	.....	14676	E3988	.....	14737	E4103	.....	15168	E4169	.....	15372
E3876	.....	14672	E3989	.....	14736	E4103.5	.....	15128	E4169.5	.....	15370
E3880	.....	14720	E3990	.....	14740	E4104	.....	15124	E4170	.....	15376
E3882	.....	14704	E3996	.....	14880	E4106	.....	15134.5	E4170.2	.....	15380
E3884	.....	14716	E3997	.....	14884	E4106.2	.....	15134	E4170.4	.....	15388
E3890	.....	14708	E3997.5	.....	14888	E4107	.....	15132	E4170.5	.....	15390
E3892	.....	14712	E3998	.....	14892	E4107.5	.....	15135	E4170.6	.....	15392
E3896	.....	14616	E4000	.....	14896	E4108	.....	15136	E4170.82	.....	15402
E3898	.....	14620	E4004	.....	14900	E4109	.....	15140	E4171.5	.....	15384
E3900	.....	14624	E4006	.....	14904	E4110	.....	15148	E4172.2	.....	15510
E3901	.....	14625	E4008	.....	14908	E4110.4	.....	15144	E4172.5	.....	15498
E3901.2	.....	14626	E4009	.....	14912	E4110.6	.....	15143	E4172.6	.....	15496
E3902	.....	14628	E4010	.....	14916	E4111	.....	15152	E4172.65	.....	15492
E3904	.....	14632	E4011	.....	14920	E4112	.....	15156	E4172.8	.....	15488
E3906	.....	14636	E4014	.....	14924	E4113	.....	15160	E4173	.....	15480
E3908	.....	14640	E4015	.....	14928	E4113.5	.....	15161	E4174	.....	15476
E3910	.....	14744	E4016	.....	14932	E4114	.....	15164	E4174.2	.....	15472
E3912	.....	14756	E4017	.....	14940	E4118	.....	15172	E4174.4	.....	15468
E3918	.....	14752	E4018	.....	14944	E4118.3	.....	15174	E4174.6	.....	15460
E3919	.....	14763	E4020	.....	14948	E4119	.....	15210	E4174.7	.....	15456
E3920	.....	14776	E4022	.....	14952	E4120	.....	15192	E4174.73	.....	15450
E3922	.....	14763.5	E4026	.....	14956	E4122	.....	15212	E4174.74	.....	15450.1
E3926	.....	14764	E4028	.....	14964	E4124	.....	15196	E4174.77	.....	15452
E3927	.....	14768	E4030	.....	14960	E4126	.....	15200	E4174.78	.....	15448
E3928	.....	14761	E4032	.....	14968	E4127	.....	15208	E4174.79	.....	15449
E3928.2	.....	14761.5	E4036	.....	14972	E4130	.....	15204	E4174.8	.....	15444
E3936	.....	14780	E4038	.....	14976	E4134	.....	15216	E4174.82	.....	15440
E3938	.....	14784	E4040	.....	14980	E4135	.....	15220	E4174.83	.....	15436
E3940	.....	14788	E4042	.....	14984	E4136	.....	15224	E4174.84	.....	15432
E3942	.....	14792	E4044	.....	14988	E4140	.....	15228	E4174.86	.....	15404
E3946	.....	14796	E4048	.....	14992	E4140.3	.....	15232	E4175	.....	15420
E3948	.....	14876	E4050	.....	15000	E4141	.....	15236	E4175.5	.....	15428
E3950	.....	14872	E4051	.....	15004	E4141.2	.....	15240	E4175.52	.....	15424
E3952	.....	14800	E4052	.....	15008	E4141.3	.....	15244	E4175.54	.....	15412
E3954.2	.....	14798	E4054	.....	15012	E4141.5	.....	15276	E4175.7	.....	15408

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
E4176	.....	15464	E4263	.....	15945	E4332	.....	15656	E4432	.....	16408
E4176.3	.....	15462	E4266	.....	15952	E4332.3	.....	15659	E4433	.....	16406
E4177	.....	15512	E4266.5	.....	15954	E4332.5	.....	15660	E4433.2	.....	16407
E4177.2	.....	15516	E4267	.....	15956	E4333	.....	15664	E4433.5	.....	16410
E4177.4	.....	15520	E4268	.....	15960	E4333.3	.....	15668	E4434	.....	16412
E4178	.....	15524	E4269	.....	15964	E4334	.....	15680	E4435	.....	16417
E4180	.....	15528	E4270	.....	15968	E4336	.....	15684	E4436	.....	16416
E4182	.....	15536	E4275	.....	15973	E4336.5	.....	15692	E4440	.....	16420
E4182.4	.....	15540	E4276	.....	15976	E4337.5	.....	15688	E4441	.....	16422
E4186	.....	15544	E4277	.....	15996	E4338	.....	15676	E4442	.....	16528
E4186.2	.....	15548	E4277.5	.....	15992	E4342	.....	15700	E4444	.....	16530
E4187.4	.....	15550	E4278	.....	15988	E4344	.....	16232	E4445.5	.....	16532
E4188.2	.....	15560	E4278.4	.....	15984	E4345.2	.....	16236	E4445.7	.....	16536
E4189.55	.....	15568	E4278.5	.....	15985	E4346	.....	16240	E4445.75	.....	16540
E4189.6	.....	15572	E4279	.....	16000	E4346.4	.....	16252	E4446	.....	16544
E4189.8	.....	15576	E4280	.....	16004	E4347	.....	16256	E4447	.....	16556
E4190	.....	15578	E4282	.....	15852	E4347.4	.....	16260	E4447.1	.....	16557
E4191	.....	15580	E4283	.....	15856	E4347.6	.....	16264	E4448	.....	16554
E4192	.....	15584	E4284	.....	15816	E4348	.....	16244	E4449	.....	16548
E4193	.....	15592	E4286	.....	15824	E4349.5	.....	16266	E4449.4	.....	16552
E4194	.....	15588	E4288	.....	15826	E4350	.....	16268	E4451	.....	16228
E4198	.....	15596	E4289	.....	15820	E4350.3	.....	16276	E4451.3	.....	16424
E4200	.....	15600	E4289.4	.....	15821	E4351	.....	16269	E4451.6	.....	16428
E4202	.....	15604	E4290	.....	15836	E4351.3	.....	16270	E4451.8	.....	16435
E4204	.....	15608	E4291	.....	15840	E4352	.....	16280	E4452	.....	16436
E4208	.....	15612	E4291.2	.....	15841	E4354	.....	16272	E4452.08	.....	16438
E4209	.....	15616	E4292	.....	15848	E4355	.....	16284	E4452.2	.....	16437
E4209.1	.....	15616.1	E4293	.....	15844	E4356	.....	16285	E4452.3	.....	16441
E4210	.....	15620	E4293.6	.....	15880	E4357	.....	16289	E4453	.....	16432
E4212	.....	15628	E4294	.....	15860	E4358	.....	16288	E4453.2	.....	16442
E4214	.....	15632	E4294.1	.....	15864	E4359	.....	16292	E4453.5	.....	16508
E4215	.....	15636	E4294.2	.....	15868	E4360	.....	16296	E4453.9	.....	16443
E4218	.....	15624	E4294.5	.....	15872	E4361	.....	16300	E4454	.....	16444
E4220	.....	15648	E4295	.....	15876	E4362	.....	16304	E4454.1	.....	16445
E4222	.....	15652	E4295.5	.....	15884	E4366	.....	16308	E4454.2	.....	16446
E4222.5	.....	15653	E4295.7	.....	15980	E4368	.....	16312	E4454.5	.....	16447
E4223	.....	15640	E4296	.....	15948	E4369	.....	16310	E4455	.....	16448
E4224	.....	15644	E4298	.....	15832	E4369.4	.....	16311	E4455.3	.....	16452
E4225	.....	15642	E4299	.....	15812	E4370	.....	16316	E4455.5	.....	16460
E4228	.....	15764	E4300	.....	15808	E4371	.....	16320	E4455.7	.....	16456
E4230	.....	15760	E4300.2	.....	15806	E4372	.....	16317	E4456	.....	16512
E4232	.....	15768	E4300.31	.....	15805	E4375	.....	16324	E4458	.....	16516
E4233	.....	15769	E4300.32	.....	15805.2	E4378	.....	16328	E4461	.....	16526
E4234	.....	15772	E4302	.....	15804	E4380	.....	16332	E4462	.....	16524
E4234.5	.....	15776	E4303	.....	15800	E4382	.....	16336	E4464	.....	16520
E4235	.....	15780	E4304	.....	15796	E4384	.....	16348	E4466	.....	16500
E4235.4	.....	15784	E4306	.....	15712	E4408	.....	16340	E4467	.....	16505
E4236.4	.....	15788	E4308	.....	15708	E4408.5	.....	16341	E4468	.....	16504
E4237	.....	15792	E4310	.....	15724	E4409	.....	16344	E4472	.....	16496
E4238	.....	15928	E4311	.....	15728	E4410.6	.....	16374	E4474	.....	16480
E4239	.....	15912	E4311.2	.....	15732	E4412	.....	16352	E4475	.....	16484
E4240	.....	15900	E4311.7	.....	15733	E4413	.....	16353, 16356	E4475.1	.....	16484.5
E4242	.....	15904	E4312	.....	15704	E4416	.....	16360	E4475.15	.....	16486
E4244	.....	15896	E4312.5	.....	15723	E4417	.....	16372	E4475.16	.....	16486.5
E4246	.....	15888	E4313	.....	15722	E4418	.....	16377	E4475.2	.....	16477
E4248	.....	15892	E4314	.....	15720	E4418.5	.....	16378	E4475.22	.....	16478
E4249	.....	15916	E4315	.....	15721	E4418.7	.....	16379	E4475.4	.....	16492
E4250	.....	15924	E4316	.....	15716	E4420	.....	16380	E4476	.....	16476
E4252	.....	15920	E4318	.....	15736	E4422	.....	16376	E4478	.....	16472
E4256	.....	15932	E4320	.....	15738	E4424	.....	16388	E4478.5	.....	16471
E4258	.....	15936	E4322	.....	15744	E4425	.....	16404	E4478.52	.....	16470
E4259	.....	15937	E4324	.....	15748	E4427	.....	16392	E4479	.....	16469
E4260	.....	15940	E4326	.....	15752	E4428	.....	16400	E4480	.....	16468
E4261	.....	15941	E4327	.....	15756	E4428.2	.....	16396	E4482	.....	16464
E4262	.....	15944	E4330	.....	15672	E4430	.....	16384	E4485	.....	16558

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
E4485.1		16559	E4546.8		16782	E4590.25		19702.5	E4627		19880
E4488		16640	E4546.9		16782.5	E4590.4		19703	E4628		19884
E4489		16560	E4547		16784	E4591		19704	E4628.7		19892
E4492		16564	E4547.1		16785	E4592		19708	E4630		19896
E4492.2		16565	E4547.15		16785.5	E4594		19752	E4632		19900
E4492.3		16565.5	E4547.2		16786	E4595		19740	E4634		19904
E4494		16568	E4547.25		16786.5	E4596		19744	E4634.5		19905
E4496		16572	E4547.4		16789	E4597		19748	E4638		19908
E4496.5		16580	E4547.5		16788	E4598		19732	E4640		19928
E4496.57		16580.5	E4547.6		16790	E4598.2		19736	E4640.5		19930
E4496.58		16580.6	E4547.7		16792	E4599		19720	E4642		19932
E4496.6		16581	E4547.8		16776	E4600		19724	E4643		19952
E4496.7		16581.5	E4547.9		16780	E4600.4		19725	E4643.5		19960
E4497		16584	E4548		16772	E4602		19716	E4644		19956
E4498		16576	E4549.2		16793	E4603		19712	E4646		19964
E4500		16588	E4549.22		16794	E4604		19810	E4648		19992
E4501		16592	E4550		16796	E4605		19772	E4649		19916
E4502		16596	E4550.5		16800	E4606		19776	E4649.4		19920
E4502.3		16600	E4551		16808	E4607		19756	E4649.6		19924
E4502.4		16604	E4551.1		16812	E4607.6		19760	E4650		19912
E4503		16608	E4552		16816	E4607.7		19770	E4650.1		19911.5
E4503.2		16612	E4552.2		16820	E4607.8		19761	E4650.2		19911
E4503.7		16616	E4552.5		16824	E4607.9		19762	E4652		19936
E4504		16628	E4552.6		16828	E4608		19768	E4653		19940
E4505		16624	E4552.8		16832	E4608.4		19764	E4653.2		19944
E4506		16620	E4553		16834	E4609		19754	E4653.3		19948
E4509		16636	E4553.2		16835	E4610		19780	E4654		19968
E4511		16644	E4554		16836	E4611		19784	E4655		19972
E4512		16648	E4555		16844	E4612		19788	E4655.2		19973
E4512.5		16652	E4555.2		16840	E4613		19792	E4655.5		19990
E4513		16660	E4556		16848	E4614		19796	E4656		19980
E4515		16664	E4556.4		16852	E4615.22		19799	E4656.4		19974
E4516		16656	E4556.8		16860	E4615.24		19799.3	E4656.6		19975
E4520		16668	E4557.6		16948	E4615.26		19799.5	E4657		19976
E4522		16672	E4558		16944	E4615.3		19798	E4658		19984
E4523		16676	E4558.5		16941	E4615.4		19800	E4659		19988
E4523.4		16680	E4558.6		16942	E4615.5		19804	E4661		19996
E4523.9		16682	E4559		16940	E4615.6		19808	E4661.5		19998
E4524		16684	E4559.2		16940.5	E4616		19816	E4661.6		19998.5
E4525		16685	E4559.4		16932	E4616.2		19812	E4662		20000
E4526		16688	E4559.6		16936.5	E4616.3		19822	E4664		20004
E4532		16704	E4559.7		16936	E4616.4		19824	E4664.3		20012
E4533		16700	E4559.8		16937	E4616.9		19825	E4664.4		20008
E4533.6		16706	E4560		16884	E4616.92		19826	E4665		20016
E4533.7		16707	E4564		16856	E4617		19827	E4665.05		20018
E4533.8		16707.5	E4565		16876	E4617.2		19828	E4665.2		20172
E4534		16708	E4566		16868	E4617.5		19832	E4665.25		20174
E4535		16710	E4566.5		16872	E4617.6		19830	E4665.3		20165
E4536		16712	E4568		16864	E4617.9		19838	E4665.4		20164
E4537		16716	E4568.2		16954	E4618		19840	E4665.5		20166
E4538		16720	E4569		16952	E4620		19844	E4665.6		20168
E4539.5		16728	E4572		16920	E4621		19836	E4665.7		20162
E4539.6		16732	E4574		16916	E4621.2		19837	E4665.8		20160
E4540		16736	E4575		16904	E4621.3		19837.1	E4665.9		20030
E4541		16740	E4576.2		16908	E4621.5		19856	E4666		20032
E4542		16744	E4576.6		16912	E4621.6		19848	E4667		20031
E4544		16748	E4577		16900	E4621.62		19852	E4667.1		20031.5
E4544.4		16749.5	E4578		16888	E4622		19864	E4667.2		20031.6
E4544.6		16749	E4580		16892	E4622.1		19866	E4669		20036
E4544.8		16750	E4584		16928	E4622.3		19868	E4670		20040
E4545		16752	E4584.5		16925	E4622.4		19870	E4674		20044
E4545.3		16756	E4585		16924	E4622.7		19871	E4676		20048
E4546		16760	E4588		19696	E4622.8		19867	E4677		20050
E4546.3		16764	E4590		19700	E4623		19860	E4678		20052
E4546.6		16768	E4590.2		19702	E4626		19876	E4680		20028

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
E4683	.....	20020	E4743	.....	20408	E4788	.....	16056	E4868	.....	17028
E4687	.....	20064	E4744	.....	20416	E4788.5	.....	16060	E4870	.....	17032
E4688	.....	20060	E4745	.....	20412	E4790	.....	16064	E4872	.....	17036
E4689	.....	20056	E4746	.....	20424	E4791.4	.....	16068	E4874	.....	17040
E4690	.....	20068	E4747	.....	20420	E4792	.....	16076	E4876	.....	17044
E4692	.....	20080	E4749	.....	20428	E4793	.....	16075	E4876.5	.....	17046
E4692.5	.....	20078	E4750	.....	20432	E4794	.....	16080	E4878	.....	17048
E4693	.....	20076	E4752	.....	20434	E4795	.....	16085	E4879	.....	17052
E4694	.....	20072	E4755	.....	20440	E4796	.....	16084	E4879.5	.....	17054
E4695	.....	20070	E4756	.....	20388	E4798	.....	16100	E4880	.....	17056
E4698	.....	20132	E4757	.....	20366	E4800	.....	16104	E4880.6	.....	17112
E4700	.....	20152	E4757.5	.....	20368	E4808	.....	16120	E4881	.....	17132
E4702	.....	20136	E4758.1	.....	20381	E4810	.....	16088	E4881.3	.....	17134
E4703	.....	20140	E4758.2	.....	20382	E4812	.....	16092	E4881.6	.....	17116
E4704	.....	20144	E4758.4	.....	20372	E4813	.....	16096	E4881.7	.....	17120
E4705	.....	20148	E4758.45	.....	20374	E4813.7	.....	16123	E4882	.....	17160
E4708	.....	20180	E4759	.....	20380	E4814	.....	16124	E4884	.....	17164
E4708.5	.....	20176	E4760	.....	20376	E4816	.....	16128	E4885	.....	17168
E4708.7	.....	20204	E4760.3	.....	20328	E4818	.....	16132	E4886	.....	17188
E4709	.....	20205	E4760.7	.....	20336	E4819	.....	16136	E4887	.....	17180
E4711	.....	20196	E4761	.....	20332	E4819.5	.....	16138	E4888	.....	17176
E4711.3	.....	20192	E4761.3	.....	20340	E4820	.....	16140	E4889	.....	17184
E4711.5	.....	20200	E4761.5	.....	20364	E4821	.....	16144	E4890	.....	17172
E4712	.....	20208	E4761.8	.....	20344	E4822	.....	16145	E4892	.....	17152
E4714	.....	20212	E4762	.....	20348	E4824	.....	16152	E4892.4	.....	17144
E4716	.....	20272	E4763	.....	20352	E4824.5	.....	16156	E4892.6	.....	17148
E4718	.....	20276	E4763.2	.....	20360	E4825	.....	16164	E4892.8	.....	17153
E4720	.....	20280	E4763.5	.....	20356	E4825.5	.....	16168	E4892.9	.....	17153.5
E4721	.....	20284	E4764	.....	20292	E4826	.....	16160	E4893	.....	17156
E4721.4	.....	20288	E4764.5	.....	20324	E4827	.....	16170	E4893.5	.....	17154
E4722	.....	20244	E4765	.....	20308	E4828	.....	16172	E4894	.....	17136
E4726	.....	20256	E4765.5	.....	20320	E4829	.....	16180	E4896	.....	17060
E4726.3	.....	20257	E4765.7	.....	20316	E4830	.....	16176	E4896.5	.....	17064
E4726.4	.....	20258	E4765.8	.....	20313	E4831	.....	16184	E4897	.....	17068
E4726.5	.....	20258.5	E4765.82	.....	20314	E4832	.....	16192	E4898	.....	17072
E4726.6	.....	20260	E4766	.....	20312	E4833	.....	16188	E4899	.....	17076
E4727	.....	20264	E4766.2	.....	20300	E4833.6	.....	16196	E4899.1	.....	17078
E4727.6	.....	20268	E4767	.....	20304	E4833.7	.....	16202	E4899.3	.....	17080
E4727.7	.....	20270	E4768.5	.....	20108	E4834	.....	16200	E4899.4	.....	17081
E4728	.....	20224	E4770	.....	20104	E4836	.....	16204	E4899.6	.....	17092
E4729	.....	20222	E4770.6	.....	20092	E4838	.....	16212	E4899.8	.....	17192
E4730	.....	20216	E4771	.....	20088	E4840	.....	16208	E4899.9	.....	17196
E4730.4	.....	20220	E4771.4	.....	20100	E4842	.....	16216	E4899.94	.....	17238
E4731	.....	20228	E4772	.....	20096	E4844	.....	16220	E4899.96	.....	17236
E4731.4	.....	20240	E4772.6	.....	20112	E4848	.....	16980	E4900	.....	17204
E4731.6	.....	20236	E4773	.....	20120	E4850	.....	16956	E4900.2	.....	17208
E4731.7	.....	20232	E4774	.....	20116	E4852	.....	16976	E4900.4	.....	17212
E4732	.....	20452	E4774.2	.....	20117	E4852.3	.....	16968	E4900.6	.....	17216
E4732.5	.....	20456	E4775	.....	20124	E4852.4	.....	16960	E4900.7	.....	17220
E4733	.....	20460	E4775.5	.....	20128	E4852.6	.....	16972	E4900.8	.....	17200
E4733.4	.....	20490	E4776	.....	20084	E4852.8	.....	16964	E4901	.....	17100
E4734	.....	20464	E4777	.....	20156	E4853	.....	16984	E4902	.....	17104
E4734.2	.....	20466	E4778	.....	16224	E4854	.....	16988	E4903	.....	17340
E4734.4	.....	20476	E4779	.....	16226	E4855	.....	16990	E4903.4	.....	17108
E4735	.....	20472	E4780	.....	16008	E4856	.....	16992	E4903.7	.....	17388
E4735.1	.....	20468	E4780.4	.....	16010	E4857	.....	16996	E4903.8	.....	17372
E4735.2	.....	20480	E4780.5	.....	16010.5	E4857.2	.....	16997	E4904	.....	17352
E4735.5	.....	20484	E4780.95	.....	16012.5	E4857.3	.....	16998	E4904.2	.....	17356
E4736	.....	20488	E4781	.....	16012	E4858	.....	17004	E4904.6	.....	17360
E4737	.....	20492	E4783	.....	16024	E4858.1	.....	17008	E4906	.....	17344
E4738	.....	20394	E4783.6	.....	16032	E4859	.....	17012	E4906.2	.....	17348
E4739	.....	20384	E4784	.....	16036	E4859.2	.....	17016	E4907	.....	17364
E4740	.....	20392	E4786	.....	16040	E4860	.....	17020	E4907.2	.....	17368
E4741	.....	20396	E4787	.....	16044	E4862	.....	17000	E4910	.....	17328
E4742	.....	20404	E4787.2	.....	16052	E4866	.....	17024	E4912	.....	17336

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
E4913	.....	17324	E4965	.....	17524	E5060	.....	17840	E5181.9	.....	18095
E4914	.....	17320	E4965.1	.....	17525	E5060.1	.....	17844	E5182	.....	18096
E4915	.....	17304	E4965.2	.....	17525.5	E5068	.....	17848	E5182.1	.....	18100
E4916	.....	17308	E4966	.....	17528	E5071	.....	17860	E5242	.....	18192
E4916.1	.....	17292.5	E4966.4	.....	17532	E5071.4	.....	17864	E5244	.....	18180
E4916.2	.....	17293	E4966.6	.....	17536	E5072	.....	17868	E5246	.....	18188
E4916.3	.....	17294	E4968	.....	17540	E5072.1	.....	17872	E5247	.....	18184
E4916.4	.....	17295	E4970	.....	17544	E5072.6	.....	17878	E5248	.....	18200
E4916.6	.....	17300	E4971	.....	17548	E5073	.....	17876	E5255	.....	18210
E4917.2	.....	17292	E4971.5	.....	17550	E5074	.....	17882	E5272	.....	18220
E4917.4	.....	17288	E4972	.....	17552	E5075	.....	17884	E5278	.....	18244
E4917.5	.....	17296	E4974	.....	17556	E5076	.....	17892	E5279.5	.....	18249
E4917.6	.....	17312	E4976	.....	17564	E5076.1	.....	17896	E5279.51	.....	18249.1
E4918	.....	17316	E4980	.....	17572	E5076.3	.....	17886	E5280	.....	18248
E4920	.....	17224	E4981	.....	17576	E5076.4	.....	17888	E5281	.....	18250
E4921	.....	17228	E4981.3	.....	17600	E5076.8	.....	17898	E5282	.....	18252
E4922	.....	17232	E4984	.....	17580	E5077.3	.....	17899.1	E5285	.....	18258
E4923	.....	17252	E4986	.....	17584	E5077.5	.....	17899	E5287	.....	18260
E4923.7	.....	17248	E4988	.....	17588	E5077.7	.....	17900	E5288	.....	18268
E4924	.....	17256	E4989	.....	17592	E5078	.....	17904	E5293	.....	18269
E4926	.....	17268	E4989.2	.....	17596	E5080	.....	17908	E5300	.....	18270
E4926.2	.....	17258	E4990	.....	17604	E5082	.....	17912	E5302	.....	18272
E4927	.....	17260	E4994	.....	17608	E5084	.....	17916	E5302.1	.....	18273
E4927.4	.....	17264	E4996	.....	17612	E5085	.....	17918	E5302.5	.....	18276
E4928	.....	17272	E4998	.....	17616	E5086	.....	17920	E5303.5	.....	18278
E4929	.....	17280	E5000	.....	17624	E5088	.....	17924	E5303.51	.....	18279
E4931	.....	17240	E5004	.....	17628	E5089	.....	17958	E5304.7	.....	18280
E4931.2	.....	17244	E5005	.....	17633	E5089.4	.....	17960	E5304.71	.....	18281
E4936.4	.....	17376	E5006	.....	17632	E5090	.....	17928	E5305.5	.....	18316
E4936.5	.....	17380	E5008.5	.....	17640	E5090.1	.....	17932	E5308	.....	18320
E4936.6	.....	17384	E5008.7	.....	17642	E5091	.....	17952	E5309	.....	18324
E4937	.....	17392	E5009	.....	17644	E5092	.....	17956	E5310	.....	18326
E4937.4	.....	17396	E5009.5	.....	17646	E5100	.....	17964	E5314	.....	18336
E4938	.....	17404	E5010	.....	17648	E5102	.....	17944	E5316	.....	18340
E4938.3	.....	17400	E5011	.....	17652	E5102.1	.....	17948	E5320	.....	18344
E4940	.....	17408	E5012	.....	17656	E5103	.....	17936	E5321	.....	18345
E4941	.....	17416	E5016	.....	17660	E5103.1	.....	17940	E5321.1	.....	18345.1
E4944	.....	17412	E5018	.....	17664	E5104	.....	17972	E5326	.....	18356
E4946	.....	17420	E5019	.....	17668	E5104.1	.....	17972.1	E5328	.....	18360
E4946.2	.....	17422	E5019.5	.....	17672	E5106	.....	17984	E5329	.....	18364
E4946.4	.....	17422.4	E5020	.....	17684	E5107	.....	17988	E5330	.....	18368
E4946.6	.....	17422.6	E5022	.....	17688	E5108	.....	17992	E5340	.....	18384
E4947	.....	17424	E5025	.....	17692	E5110	.....	18000	E5341	.....	18380
E4948	.....	17428	E5026	.....	17700	E5116	.....	18008	E5352	.....	18404
E4949	.....	17436	E5026.2	.....	17704	E5118	.....	18016	E5358	.....	18408
E4949.4	.....	17432	E5026.4	.....	17708	E5118.1	.....	18020	E5361	.....	18412
E4949.5	.....	17444	E5028	.....	17728	E5124	.....	18058	E5370	.....	18448
E4949.6	.....	17438	E5028.2	.....	17720	E5126	.....	18024	E5370.1	.....	18452
E4949.7	.....	17456	E5030	.....	17732	E5126.1	.....	18028	E5372	.....	18476
E4949.8	.....	17460	E5030.2	.....	17733	E5128	.....	18044	E5372.1	.....	18480
E4950	.....	17452	E5031	.....	17736	E5128.1	.....	18048	E5373	.....	18456
E4952	.....	17468	E5032	.....	17740	E5130	.....	18068	E5373.1	.....	18460
E4953	.....	17476	E5034	.....	17744	E5130.1	.....	18072	E5374	.....	18492
E4953.2	.....	17472	E5034.2	.....	17745	E5130.2	.....	18076	E5374.1	.....	18496
E4954	.....	17480	E5034.4	.....	17745.5	E5136.1	.....	18056	E5376	.....	18552
E4955	.....	17484	E5036	.....	17772	E5137	.....	18060	E5376.1	.....	18556
E4955.2	.....	17492	E5041	.....	17788	E5137.1	.....	18064	E5378	.....	18558
E4955.4	.....	17488	E5041.2	.....	17792	E5146	.....	18080	E5378.1	.....	18559
E4956	.....	17496	E5042	.....	17796	E5146.1	.....	18084	E5422	.....	18560
E4956.2	.....	17500	E5042.1	.....	17800	E5149	.....	18088	E5428	.....	18936
E4956.4	.....	17504	E5053	.....	17808	E5149.1	.....	18092	E5429	.....	18600
E4958	.....	17508	E5053.3	.....	17812	E5152	.....	18164	E5430	.....	18604
E4960	.....	17512	E5053.6	.....	17820	E5152.1	.....	18168	E5436	.....	18608
E4962	.....	17516	E5054	.....	17824	E5156	.....	18172	E5448	.....	18628
E4964	.....	17520	E5056	.....	17828	E5156.1	.....	18176	E5452	.....	18632

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
E5454	.....	18640	E5647.2	.....	19051	E5770	.....	19336	E5813	.....	19548
E5458	.....	18648	E5652.6	.....	19052	E5772	.....	19328	E5814	.....	19552
E5460	.....	18652	E5652.62	.....	19056	E5772.1	.....	19332	E5816	.....	19556
E5462	.....	18656	E5653.3	.....	19036	E5773	.....	19334	E5816.5	.....	19560
E5464	.....	18660	E5653.7	.....	19059	E5773.1	.....	19334.1	E5816.55	.....	19564
E5464.1	.....	18664	E5653.75	.....	19058	E5773.6	.....	19335	E5816.6	.....	19568
E5465	.....	18668	E5653.8	.....	19058.2	E5773.61	.....	19335.1	E5816.7	.....	19572
E5472	.....	18680	E5654	.....	19068	E5774	.....	19338	E5817	.....	19576
E5478	.....	18732	E5654.44	.....	19072	E5776	.....	19340	E5817.5	.....	19584
E5478.1	.....	18736	E5656	.....	19076	E5779	.....	19344	E5818	.....	19580
E5478.2	.....	18740	E5660	.....	19088	E5779.1	.....	19348	E5818.4	.....	19588
E5482	.....	18744	E5664	.....	19092	E5780	.....	19352	E5818.5	.....	19592
E5483	.....	18745	E5665	.....	19096	E5780.5	.....	19357	E5818.6	.....	19596
E5483.2	.....	18746	E5666	.....	19100	E5780.6	.....	19360	E5818.62	.....	19598
E5484	.....	18724	E5667.4	.....	19104	E5780.7	.....	19365	E5819	.....	19604
E5484.1	.....	18728	E5668	.....	19108	E5780.8	.....	19365.5	E5820	.....	19608
E5490	.....	18720	E5670	.....	19112	E5781	.....	19364	E5821	.....	19624
E5492	.....	18716	E5672	.....	19116	E5781.1	.....	19362	E5822	.....	19620
E5500	.....	18748	E5674	.....	19120	E5781.2	.....	19362.5	E5823	.....	19612
E5501	.....	18749	E5674.1	.....	19124	E5782	.....	19368	E5823.1	.....	19616
E5502	.....	18750	E5682	.....	19126	E5782.8	.....	19380	E5826	.....	19632
E5504	.....	18751	E5684	.....	19128	E5782.9	.....	19385	E5827	.....	19640
E5510	.....	18756	E5685	.....	19130	E5782.95	.....	19385.5	E5827.2	.....	19644
E5510.1	.....	18760	E5686	.....	19132	E5783	.....	19384	E5827.4	.....	19648
E5510.2	.....	18764	E5687.9	.....	19152	E5784	.....	19388	E5828	.....	19652
E5512	.....	18768	E5688	.....	19136	E5785	.....	19392	E5828.2	.....	19656
E5512.1	.....	18772	E5688.1	.....	19156	E5785.6	.....	19400	E5829.2	.....	19658.5
E5516	.....	18752	E5688.2	.....	19160	E5786	.....	19408	E5829.3	.....	19658
E5520	.....	18776	E5689	.....	19140	E5787	.....	19404	E5829.5	.....	19660
E5576	.....	18684	E5689.2	.....	19144	E5787.5	.....	19412	E5830	.....	19664
E5578	.....	18880	E5690	.....	19148	E5787.8	.....	19416	E5830.2	.....	19672
E5586	.....	18896	E5698	.....	19164	E5788	.....	19420	E5830.4	.....	19668
E5594	.....	18904	E5700	.....	19168	E5789	.....	19424	E5831	.....	19676
E5606	.....	18928	E5706	.....	19172	E5789.4	.....	19440	E5831.4	.....	19677
E5615	.....	18440	E5708	.....	19176	E5790	.....	19428	E5831.42	.....	19678
E5616	.....	18436	E5708.1	.....	19180	E5791	.....	19432	E5832	.....	19680
E5616.5	.....	18940	E5718	.....	19192	E5792	.....	19436	E5832.4	.....	19684
E5617.2	.....	18941	E5721	.....	19200	E5793	.....	19444	E5833	.....	19688
E5617.5	.....	18942	E5724	.....	19204	E5793.5	.....	19446	E5834	.....	19692
E5618	.....	18944	E5724.5	.....	19206	E5794	.....	19448	E5836	.....	20496
E5632	.....	18964	E5725	.....	19209	E5794.4	.....	19450	E5838	.....	20500
E5632.5	.....	18972	E5726	.....	19212	E5795	.....	19452	E5838.2	.....	20524
E5633	.....	18976	E5727	.....	19214	E5796	.....	19456	E5838.3	.....	20526
E5634	.....	18978	E5727.1	.....	19214.1	E5796.2	.....	19457	E5838.35	.....	20526.5
E5636	.....	18984	E5728	.....	19216	E5796.4	.....	19457.5	E5838.4	.....	20504
E5638	.....	19000	E5728.1	.....	19220	E5798	.....	19460	E5838.5	.....	20506
E5638.1	.....	19004	E5734	.....	19228	E5799	.....	19464	E5838.6	.....	20508
E5639	.....	18980	E5736	.....	19232	E5800	.....	19468	E5838.65	.....	20509
E5640	.....	18988	E5742	.....	19236	E5801	.....	19472	E5838.67	.....	20509.1
E5640.1	.....	18992	E5744	.....	19252	E5802	.....	19480	E5838.68	.....	20509.2
E5640.2	.....	18996	E5746	.....	19256	E5802.2	.....	19484	E5838.7	.....	20510
E5642	.....	19024	E5747	.....	19260	E5803	.....	19476	E5839	.....	20516
E5642.1	.....	19028	E5749	.....	19280	E5803.4	.....	19488	E5839.4	.....	20512
E5642.2	.....	19030	E5749.1	.....	19284	E5805	.....	19492	E5839.45	.....	20520
E5642.3	.....	19021	E5760	.....	19288	E5806	.....	19496	E5839.5	.....	20532
E5642.4	.....	19022	E5761	.....	19304	E5806.5	.....	19500	E5840	.....	20552
E5642.5	.....	19023	E5762	.....	19277, 19292	E5806.6	.....	19504	E5840.4	.....	20556
E5642.8	.....	19008	E5762.1	.....	19277.1	E5807	.....	19508	E5841	.....	20536
E5643	.....	19016	E5762.2	.....	19296	E5808	.....	19512	E5842	.....	20540
E5643.5	.....	19020	E5763	.....	19300	E5808.4	.....	19520	E5843	.....	20544
E5644	.....	19032	E5763.44	.....	19312	E5808.5	.....	19516	E5843.5	.....	20538
E5645	.....	19044	E5763.6	.....	19313	E5809	.....	19528	E5844	.....	20548
E5646	.....	19048	E5764	.....	19314	E5810	.....	19532	E5844.2	.....	20528
E5646.2	.....	19040	E5765	.....	19320	E5811	.....	19536	E5844.4	.....	20560
E5647	.....	19049	E5768	.....	19324	E5812	.....	19544	E5844.6	.....	20564

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
E5844.9		20563	E5880.7		20882	E5923.7		21036	E6156		21308
E5845		20572	E5881		20900	E5923.8		21040	E6158		21312
E5846		20576	E5881.1		20901	E5924		21044	E6158.5		21316
E5847		20580	E5881.2		20901.5	E5924.2		21045	E6159		21317
E5847.6		20568	E5882		20904	E5924.3		21045.5	E6159.3		21318
E5848		20584	E5882.5		20908	E5926		21048	E6159.4		21318.5
E5848.2		20592	E5882.6		20912	E5927		21052	E6159.6		21319
E5848.4		20588	E5883		20924	E5927.4		21056	E6162		21320
E5848.5		20596	E5883.6		20928	E5927.6		21060	E6166		21324
E5849		20604	E5884		20916	E5929		21064	E6168		21328
E5849.4		20608	E5884.4		20920	E5929.2		21068	E6170		21336
E5849.6		20612	E5888		20940	E5929.4		21072	E6171		21332
E5850		20616	E5890		20965	E5929.6		21076	E6171.4		21340
E5852		20620	E5892		20944	E5929.8		21080	E6173		21344
E5854		20624	E5893		20948	E5930		21084	E6173.5		21412.5
E5854.4		20628	E5894		20952	E5931.2		21088	E6174		21370
E5854.8		20630	E5895		20956	E5932		21092	E6176		21356
E5855		20632	E5896		20960	E5933		21094	E6176.1		21360
E5855.4		20636	E5900		20968	E5933.1		21096	E6176.3		21372
E5856		20644	E5901		20970	E5933.3		21104	E6176.5		21376
E5857		20640	E5901.6		20971	E5934		21116	E6179		21416
E5858		20648	E5902		20972	E5935		21120	E6180		21380
E5859		20652	E5902.4		20973.5	E5938		21132	E6182		21384
E5860		20656	E5902.6		20973	E5938.1		21128	E6183		21388
E5861		20660	E5904		20976	E5940		21140	E6183.3		21390
E5862		20664	E5906		20980	E5941		21152	E6186.5		21400
E5866		20668	E5907		20984	E5941.8		21188	E6189		21408
E5866.5		20669	E5907.5		20985	E5942		21192	E6190		21412
E5866.51		20669.1	E5908		20836	E5943		21200	E6191		21413
E5867		20670	E5908.5		20844	E5943.2		21196	E6191.1		21413.5
E5868		20672	E5908.51		20848	E5944		21204	E6191.2		21413.7
E5871		20676	E5908.6		20850	E5944.2		21208	E6191.3		21414
E5871.3		20680	E5910		20986	E5945		21212	E6193		21418
E5871.32		20684	E5912		20788	E5946		21216	E6194		21420
E5871.4		20688	E5912.02		20792	E5947		21220	E6198		21422
E5871.42		20692	E5912.04		20796	E5952		21228	E6198.1		21422.1
E5871.5		20696	E5912.06		20800	E5953		21232	E6204		21424
E5872		20708	E5912.5		20804	E5954		21234	E6206		21428
E5872.2		20712	E5912.6		20805	E5954.5		21234.2	E6210		21432
E5872.4		20716	E5913		20808	E5954.6		21234.4	E6214		21436
E5873		20720	E5913.02		20812	E5956		21236	E6220		21452
E5873.2		20724	E5914		20813	E5957		21238	E6221		21440
E5873.3		20728	E5914.4		20813.5	E5958.4		21240	E6224		21444
E5873.6		20744	E5914.65		20813.7	E5959		21244	E6224.1		21448
E5873.7		20748	E5914.67		20813.9	E5959.2		21248	E6226		21450
E5873.8		20752	E5914.7		20814	E5959.4		21252	E6226.2		21450.1
E5874		20756	E5915		20820	E5962.4		21257	E6226.4		21450.2
E5874.4		20760	E5915.02		20824.5	E5962.5		21258	E6227		21451
E5874.5		20764	E5915.22		20824	E5963		21256	E6228		21456
E5874.6		20766	E5915.4		20825	E5967		21260	E6230		21464
E5875		20768	E5915.5		20826	E5968		21264	E6234		21468
E5875.2		20772	E5916		20816	E5969		21268	E6236		21472
E5875.5		20776	E5917		20832	E5969.5		21269	E6238		21476
E5876		20856	E5919		20988	E5969.75		21271	E6239		21480
E5876.2		20860	E5919.4		20992	E5970		21272	E6242		21484
E5876.3		20864	E5920		20996	E5973		21274	E6244		21488
E5876.4		20852	E5921.4		21006	E5978.2		21276	E6246		21492
E5876.6		20868	E5921.5		21005	E5978.6		21292.5	E6248		21496
E5876.8		20872	E5921.51		21005.1	E5979		21292	E6250		21500
E5877		20888	E5921.6		21004	E5980		21284	E6251.5		21504
E5877.4		20884	E5922		21012	E5980.1		21288	E6251.8		21508
E5878		20892	E5922.2		21016	E5983		21293	E6252		21509
E5878.1		20896	E5923		21020	E5983.2		21294	E6252.2		21509.1
E5880		20876	E5923.2		21024	E5985		21300	E6252.4		21510
E5880.2		20880	E5923.5		21032	E5985.2		21304	E6252.6		21511

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
E6252.7	.....	21511.5	E6296.4	.....	21664	E6381.5	.....	21944	E6465.2	.....	22146
E6253	.....	21512	E6296.5	.....	21668	E6382	.....	21956	E6482	.....	22164
E6253.2	.....	21516	E6296.6	.....	21672	E6384	.....	21952	E6483	.....	22166
E6253.3	.....	21517	E6298.5	.....	21631.5	E6385	.....	21960	E6484	.....	22168
E6253.4	.....	21518	E6299	.....	21676	E6385.5	.....	21964	E6486	.....	22176
E6253.5	.....	21519	E6299.5	.....	21680	E6385.7	.....	21948	E6490	.....	22180
E6253.6	.....	21520	E6304	.....	21692	E6386	.....	21976.5	E6492.4	.....	22184
E6253.7	.....	21521	E6305	.....	21696	E6387	.....	21972	E6495	.....	22192
E6254.5	.....	21524	E6306	.....	21684	E6387.3	.....	21976	E6495.2	.....	22188
E6254.6	.....	21526	E6306.1	.....	21688	E6388	.....	21976.3	E6496	.....	22196
E6254.7	.....	21528	E6316	.....	21708	E6388.2	.....	21976.4	E6504	.....	22204
E6255.4	.....	21534	E6318	.....	21712	E6389.5	.....	21976.6	E6506	.....	22208
E6255.45	.....	21536	E6322	.....	21716	E6389.6	.....	21976.7	E6508	.....	22212
E6255.5	.....	21540	E6323	.....	21720	E6390	.....	21980	E6510	.....	22216
E6255.51	.....	21544	E6324	.....	21722	E6390.4	.....	21977	E6512	.....	22220
E6255.6	.....	21545	E6325	.....	21724	E6390.42	.....	21978	E6514	.....	22224
E6255.7	.....	21546	E6326	.....	21728	E6390.6	.....	21979	E6516	.....	22228
E6256	.....	21564	E6327	.....	21738	E6391	.....	21982	E6518	.....	22232
E6256.2	.....	21562	E6328	.....	21740	E6392	.....	21984	E6520	.....	22252
E6256.4	.....	21556	E6328.2	.....	21741	E6392.3	.....	21985	E6520.2	.....	22256
E6256.41	.....	21560	E6330.2	.....	21760	E6392.4	.....	21985.1	E6522	.....	22240
E6256.9	.....	21572	E6332	.....	21764	E6394	.....	21988	E6523	.....	22248
E6257	.....	21568	E6334	.....	21776	E6394.2	.....	21989	E6524	.....	22244
E6257.1	.....	21576	E6338	.....	21780	E6394.4	.....	21989.1	E6530	.....	22264
E6258	.....	21580	E6339	.....	21772	E6394.5	.....	21990	E6533	.....	22268
E6258.1	.....	21584	E6342.4	.....	21804	E6394.6	.....	21991	E6534	.....	22272
E6259	.....	21588	E6344	.....	21784	E6396	.....	21996	E6538	.....	22276
E6259.1	.....	21592	E6345	.....	21806	E6396.5	.....	22008	E6540	.....	22280
E6259.2	.....	21590	E6348	.....	21820	E6397	.....	22002	E6542	.....	22284
E6260	.....	21596	E6349	.....	21821	E6397.5	.....	22000	E6544	.....	22288
E6263	.....	21604	E6350	.....	21822	E6399	.....	22004	E6550	.....	22292
E6263.1	.....	21608	E6352	.....	21812	E6400	.....	22034	E6551	.....	22296
E6264	.....	21598	E6352.4	.....	21816	E6406	.....	22020	E6552	.....	22300
E6264.4	.....	21600	E6354	.....	21828	E6407	.....	22028	E6558	.....	22308
E6264.5	.....	21602	E6356	.....	21832	E6410	.....	22032	E6560	.....	22312
E6266	.....	21612	E6358	.....	21834	E6412	.....	22040	E6562	.....	22316
E6266.3	.....	21613	E6359	.....	21836	E6413	.....	22044	E6566	.....	22324
E6266.4	.....	21614	E6362	.....	21848	E6413.2	.....	22048	E6567	.....	22320
E6266.5	.....	21615	E6362.5	.....	21845	E6414	.....	22056	E6572	.....	22328
E6266.51	.....	21615.1	E6362.6	.....	21846	E6415	.....	22060	E6573	.....	22332
E6266.6	.....	21615.2	E6362.7	.....	21847	E6415.2	.....	22062	E6578	.....	22336
E6266.7	.....	21615.3	E6364	.....	21897	E6416	.....	22064	E6580	.....	22340
E6266.8	.....	21615.4	E6364.2	.....	21897.2	E6420	.....	22068	E6582	.....	22344
E6267	.....	21615.5	E6366	.....	21888	E6422	.....	22076	E6584	.....	22348
E6267.2	.....	21616	E6366.4	.....	21872	E6423	.....	22078	E6588	.....	22352
E6267.6	.....	21621	E6366.6	.....	21852	E6423.4	.....	22078.5	E6590	.....	22356
E6267.7	.....	21621.5	E6368	.....	21900	E6426	.....	22080	E6592	.....	22360
E6268	.....	21624	E6369	.....	21898	E6428	.....	22084	E6593.4	.....	22364
E6274	.....	21628	E6369.2	.....	21899	E6432	.....	22088	E6594	.....	22368
E6275	.....	21628.5	E6370	.....	21904	E6434	.....	22092	E6596	.....	22372
E6276	.....	21628.6	E6371	.....	21908	E6436	.....	22096	E6602	.....	22380
E6277	.....	21629.5	E6371.2	.....	21912	E6438	.....	22100	E6604	.....	22384
E6277.1	.....	21629.51	E6371.4	.....	21913	E6440	.....	22104	E6606	.....	22388
E6278	.....	21630	E6372	.....	21916	E6444	.....	22108	E6610	.....	22404
E6278.1	.....	21630.1	E6372.6	.....	21917	E6445	.....	22124	E6611	.....	22400
E6278.4	.....	21631	E6373	.....	21925	E6446	.....	22120	E6612	.....	22412
E6278.6	.....	21631.1	E6373.2	.....	21926	E6454	.....	22106	E6613	.....	22408
E6280	.....	21632	E6373.6	.....	21921	E6456	.....	22132	E6616	.....	22416
E6284	.....	21636	E6373.8	.....	21922	E6458	.....	22136	E6617	.....	22420
E6288	.....	21640	E6374	.....	21932	E6460	.....	22148	E6620	.....	22376
E6290	.....	21644	E6376	.....	21933	E6462	.....	22152	E6621	.....	22424
E6292	.....	21648	E6377	.....	21936	E6462.4	.....	22156	E6623	.....	22428
E6294	.....	21652	E6377.2	.....	21935	E6463	.....	22158	E6624	.....	22432
E6296	.....	21656	E6380	.....	21920	E6464	.....	22144	E6624.6	.....	22434
E6296.1	.....	21660	E6381	.....	21940	E6465	.....	22145	E6628	.....	22440

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
E6629	.....	22438	E6671.94	.....	22572	E6708	.....	22672	E6784	.....	22784
E6630	.....	22444	E6671.96	.....	22577	E6712	.....	22676	E6784.4	.....	22792
E6631	.....	22448	E6671.98	.....	22578	E6714	.....	22684	E6784.41	.....	22796
E6632	.....	22452	E6672	.....	22540	E6716	.....	22688	E6784.6	.....	22800
E6636	.....	22468	E6674	.....	22580	E6717	.....	22692	E6784.61	.....	22804
E6637	.....	22484	E6678	.....	22584	E6718	.....	22696	E6785	.....	22812
E6638	.....	22472	E6679	.....	22588	E6720	.....	22700	E6785.2	.....	22808
E6640	.....	22476	E6679.4	.....	22600	E6722	.....	22708	E6786	.....	22788
E6642	.....	22480	E6680	.....	22592	E6722.2	.....	22712	E6788	.....	22816
E6644	.....	22486	E6682	.....	22596	E6726	.....	22716	E6789	.....	22820
E6646	.....	22488	E6684	.....	22604	E6732	.....	22704	E6789.5	.....	22822
E6648	.....	22500	E6684.2	.....	22608	E6752	.....	22732	E6790	.....	22824
E6649	.....	22504	E6685	.....	22610	E6754	.....	22724	E6820	.....	22828
E6650	.....	22496	E6685.2	.....	22612	E6756	.....	22728	E6824	.....	22832
E6651	.....	22492	E6687	.....	22616	E6757	.....	22720	E6825	.....	22836
E6652	.....	22508	E6694	.....	22624	E6757.2	.....	22721	E6830	.....	22838
E6656	.....	22512	E6694.2	.....	22620	E6757.25	.....	22722	E7010	.....	7536
E6656.5	.....	22516	E6695	.....	22628	E6757.6	.....	22744	E7010.5	.....	7538
E6658	.....	22520	E6695.2	.....	22632	E6758	.....	22736	E7053	.....	9184
E6660	.....	22524	E6696	.....	22636	E6762	.....	22740	E7054	.....	9188
E6661	.....	22536	E6696.2	.....	22640	E6764	.....	22748	E7120	.....	10190
E6662	.....	22532	E6700	.....	22644	E6765	.....	22754	E7470	.....	11260
E6664	.....	22528	E6704	.....	22648	E6768	.....	22752	E7471	.....	11256
E6669	.....	22548	E6704.1	.....	22652	E6772	.....	22756	E7520	.....	11368
E6670	.....	22552	E6704.4	.....	22656	E6774	.....	22760	E7640	.....	17266
E6671	.....	22560	E6704.42	.....	22660	E6776	.....	22768	E7641	.....	17274
E6671.2	.....	22556	E6704.5	.....	22664	E6778	.....	22772	E7642	.....	17274.5
E6671.9	.....	22576	E6706.4	.....	22668	E6780	.....	22776	E7860	.....	21700